

FIG. 1

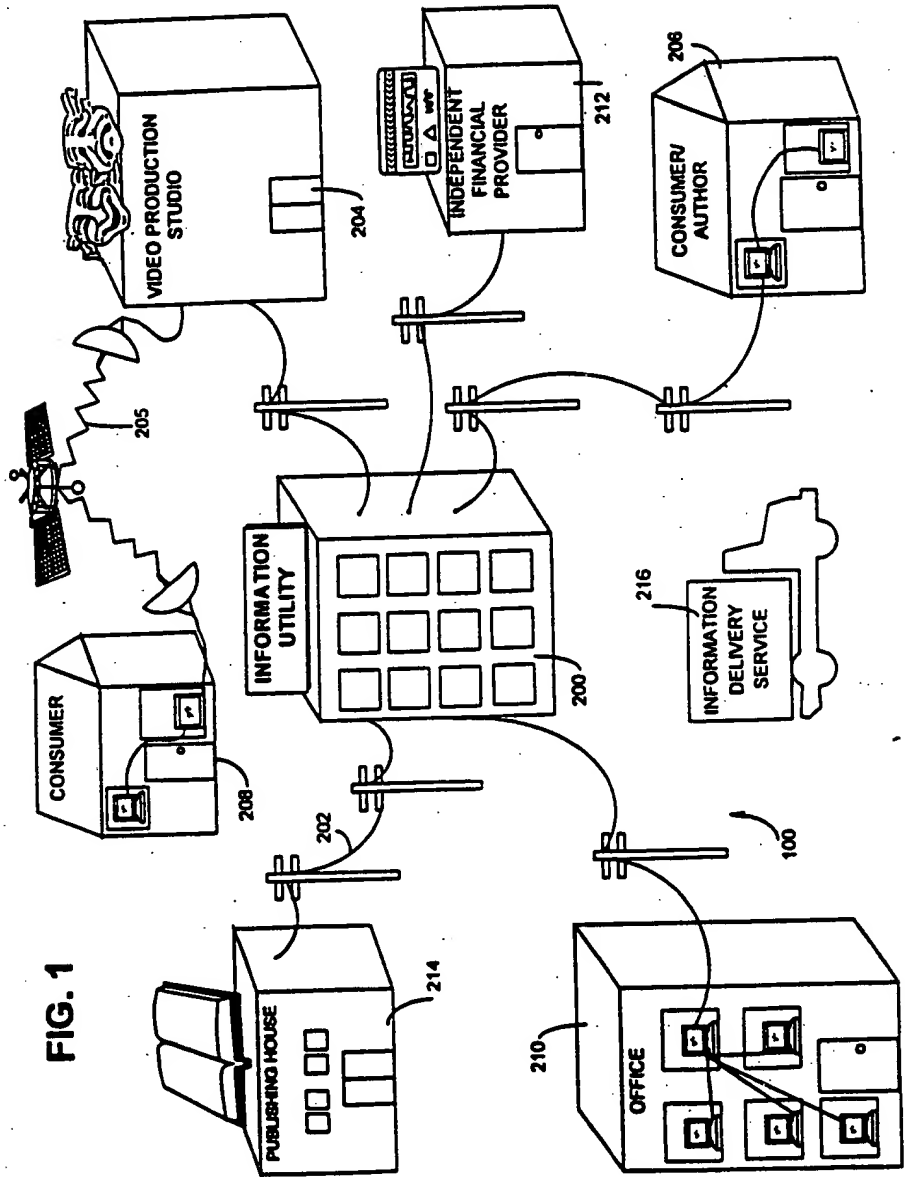


FIG. 1A

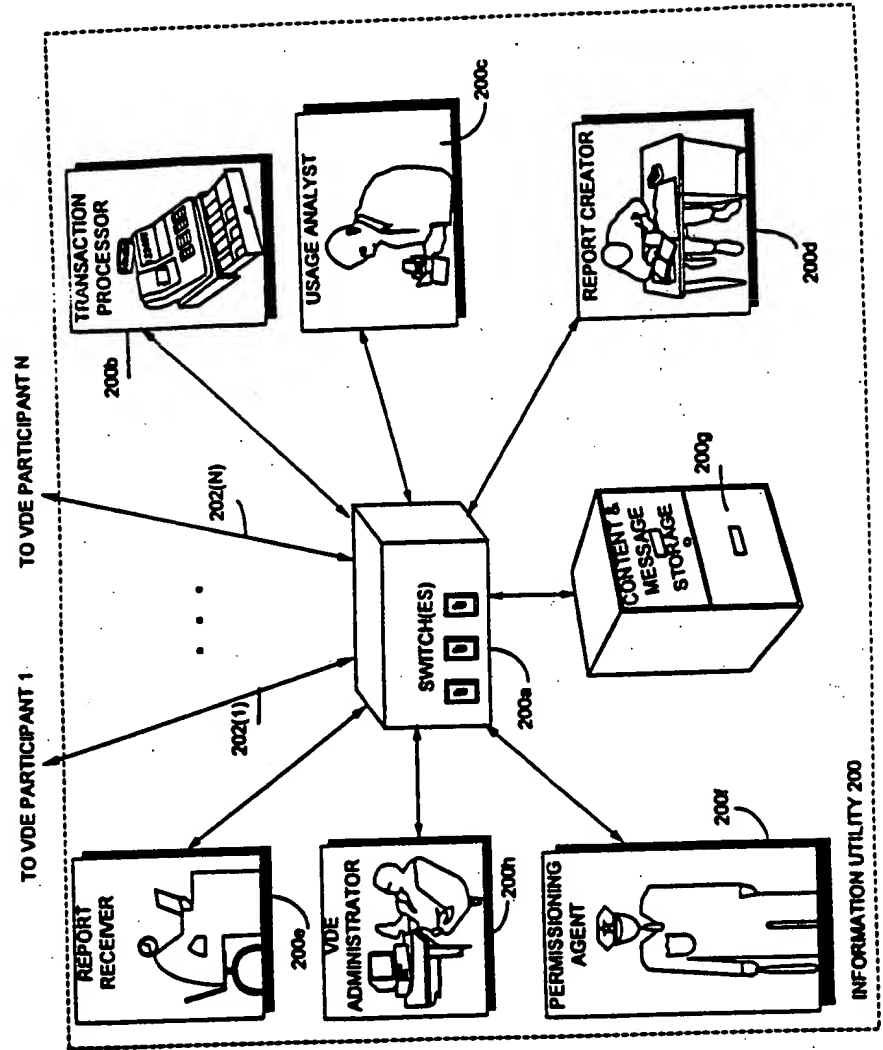
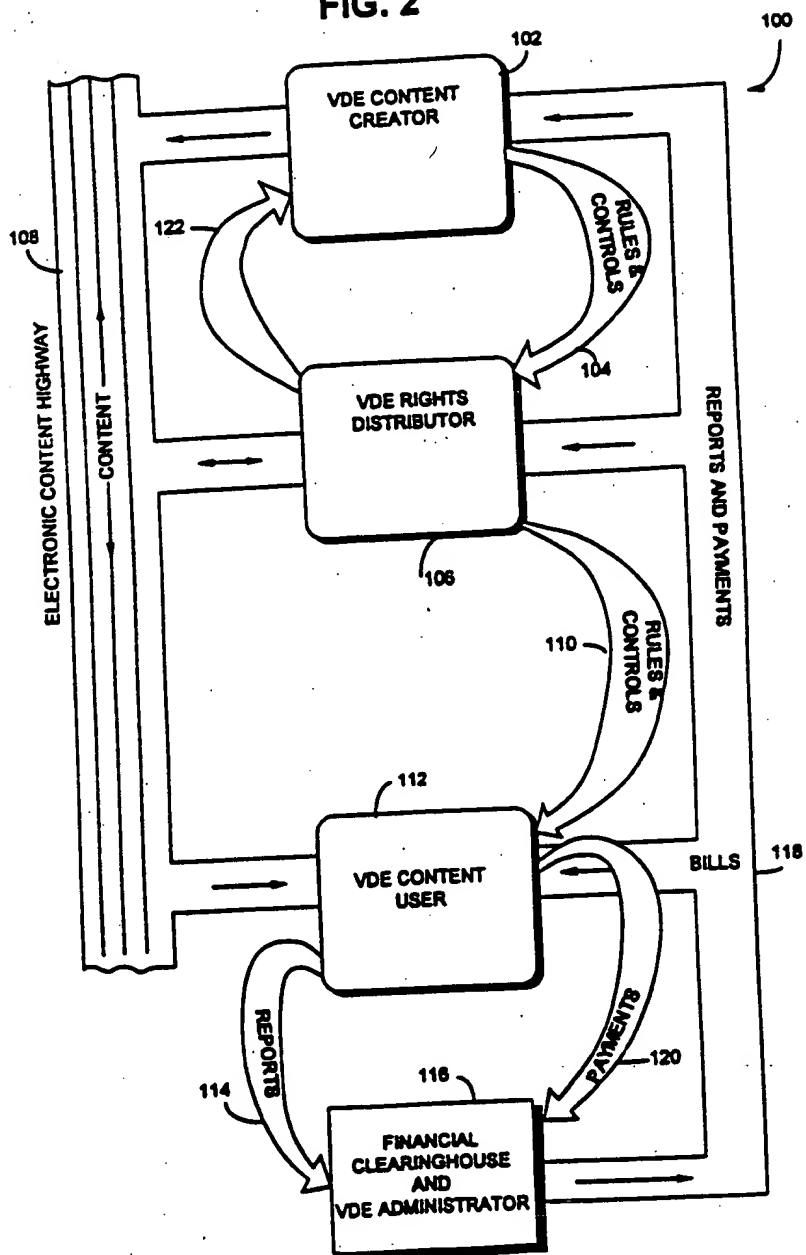


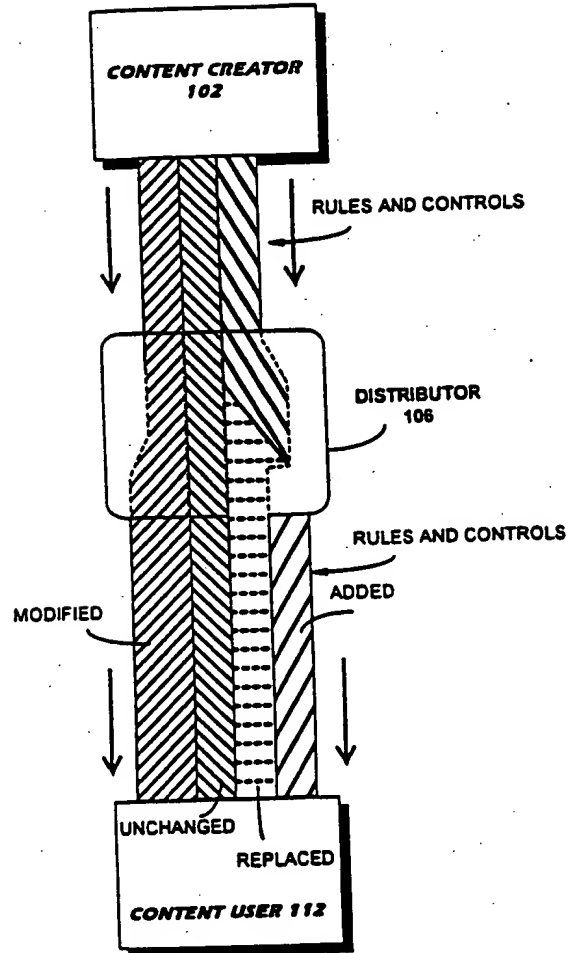
FIG. 1A

FIG. 2



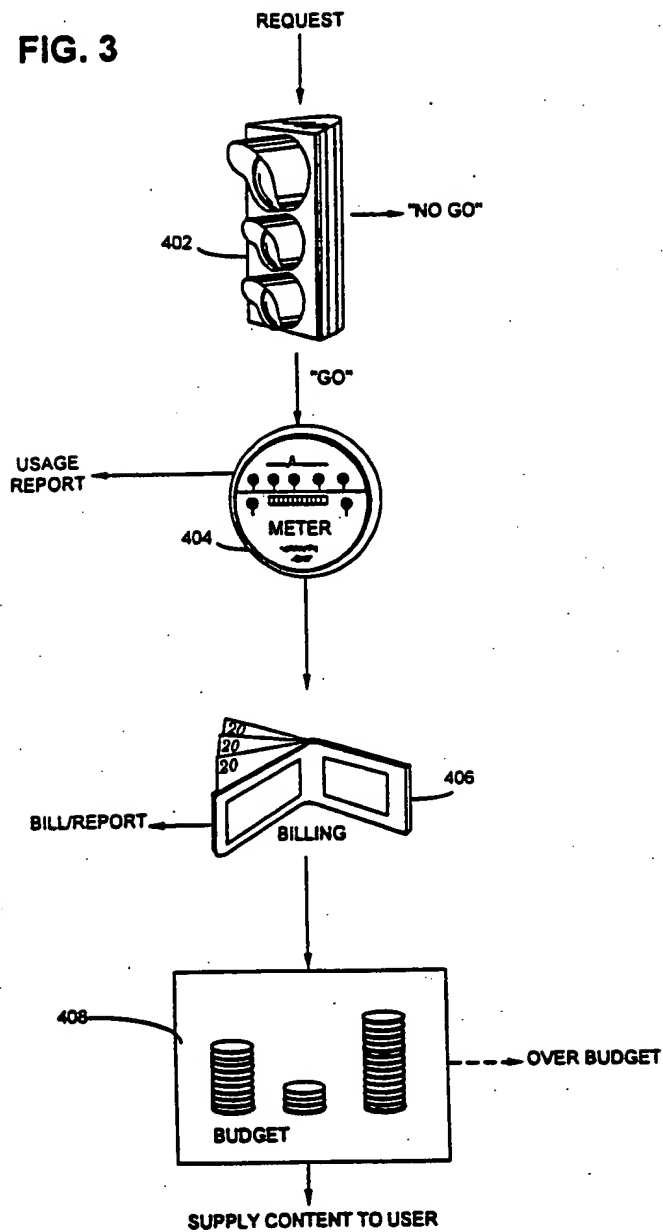
09870801.060101

FIG. 2A



09870801.050101

FIG. 3



09870801.060101

T01090" F0802860

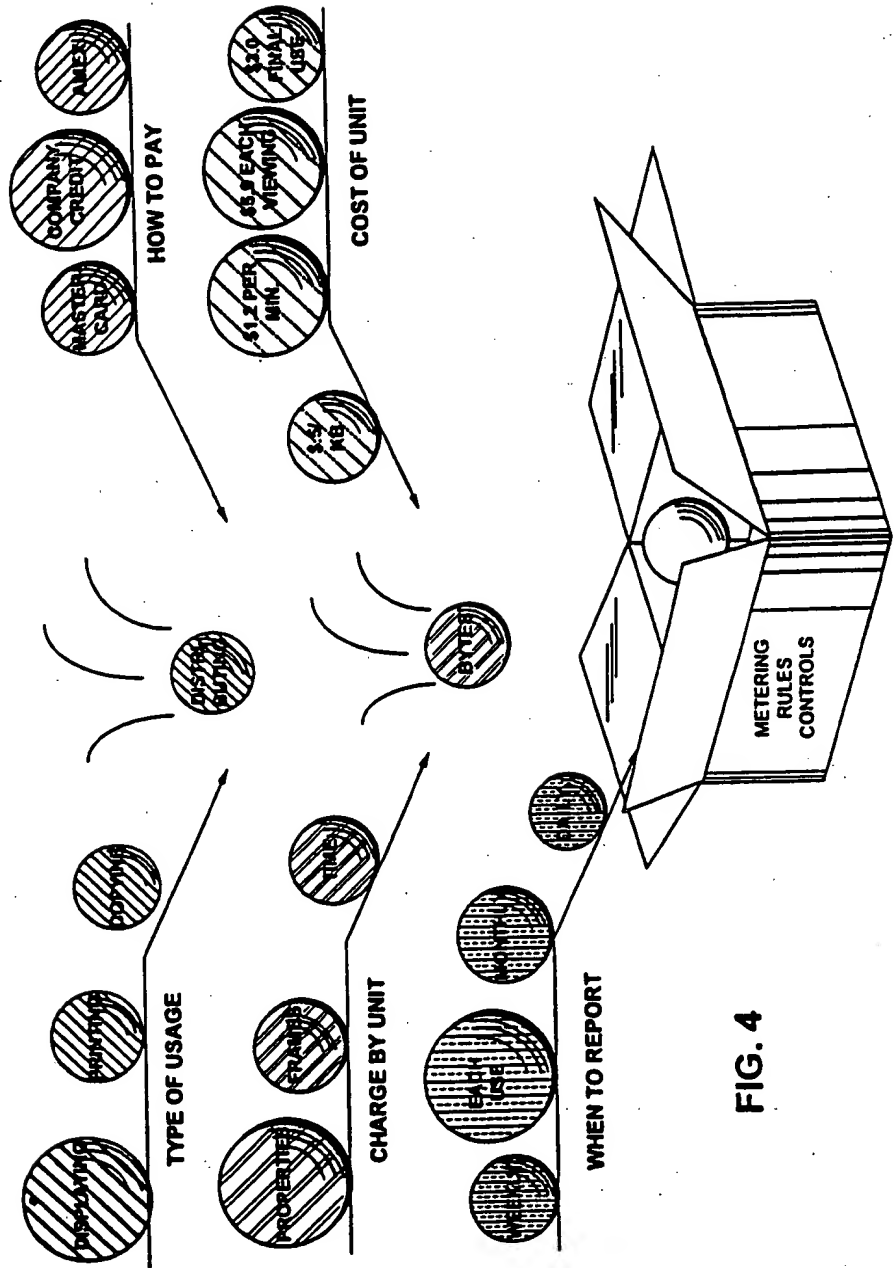
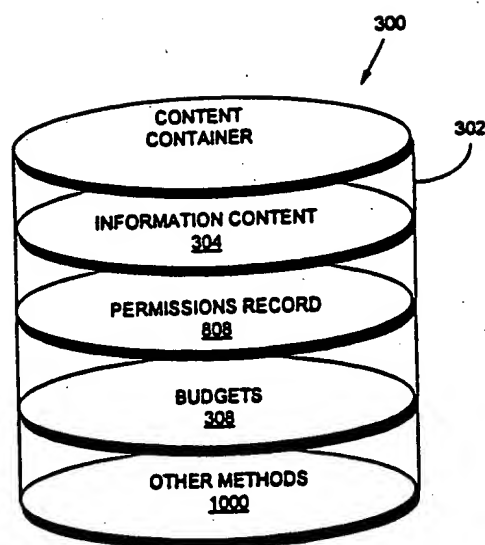


FIG. 4

FIG. 5A



09870801-060101

FOI090-10804860

FIG. 5B

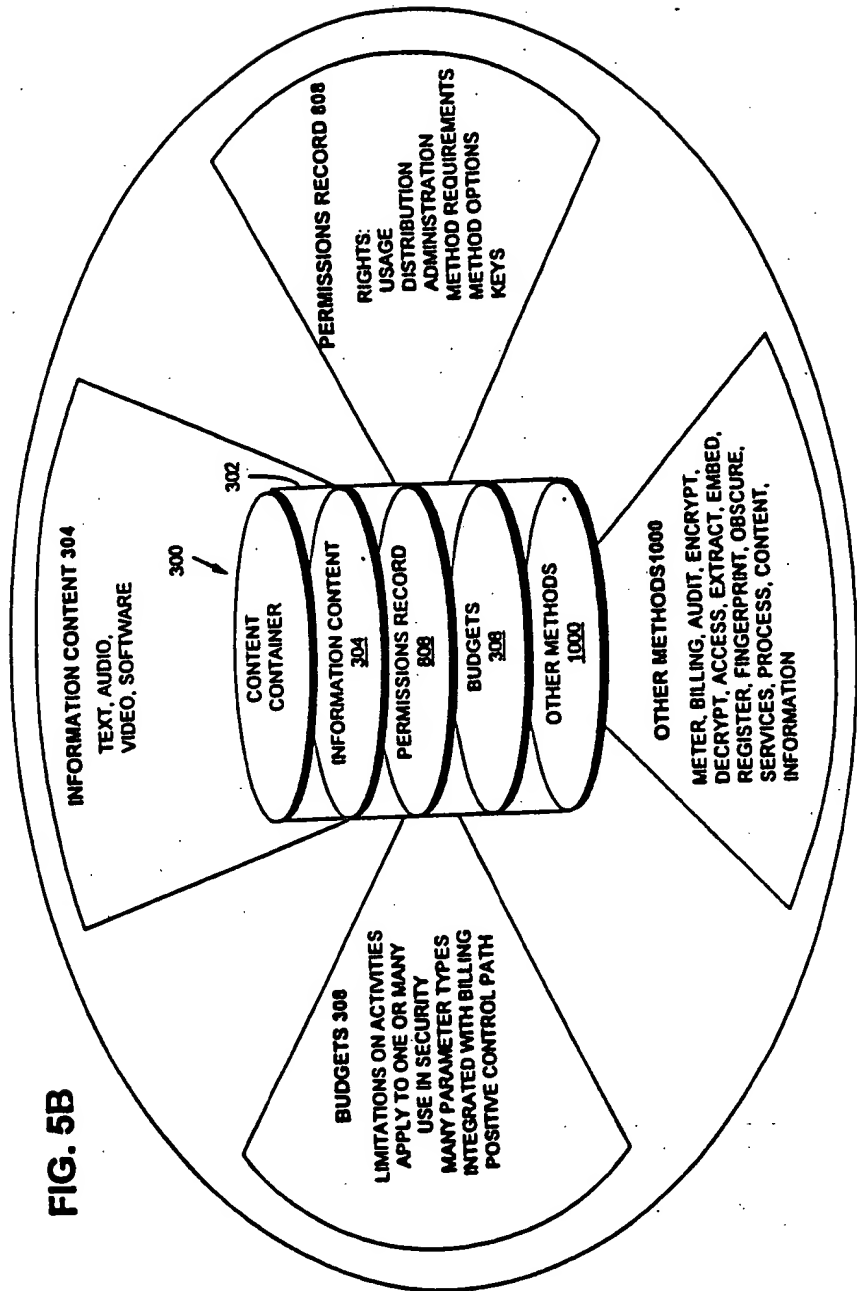
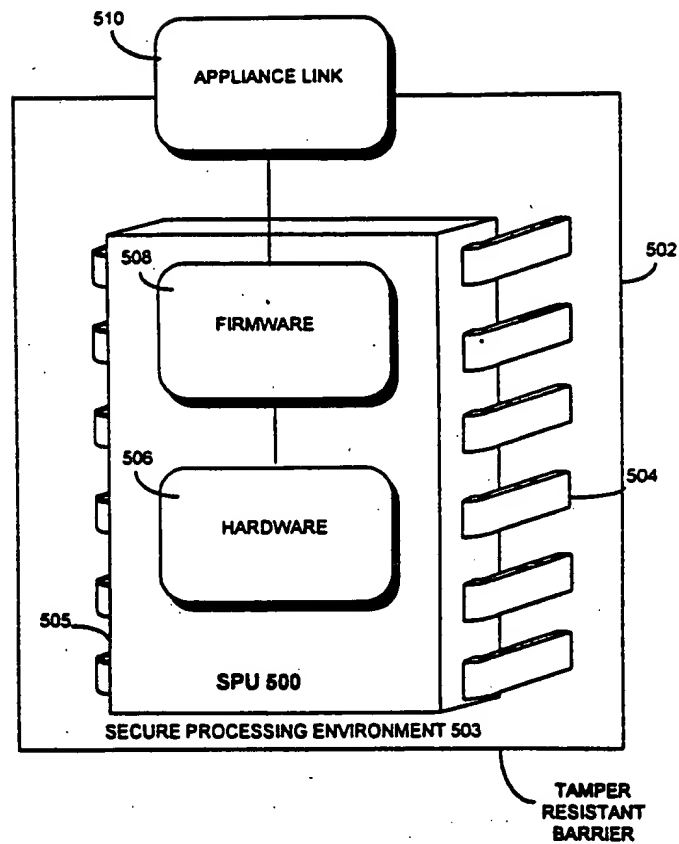




FIG. 6



09870801-060101

FIG. 7

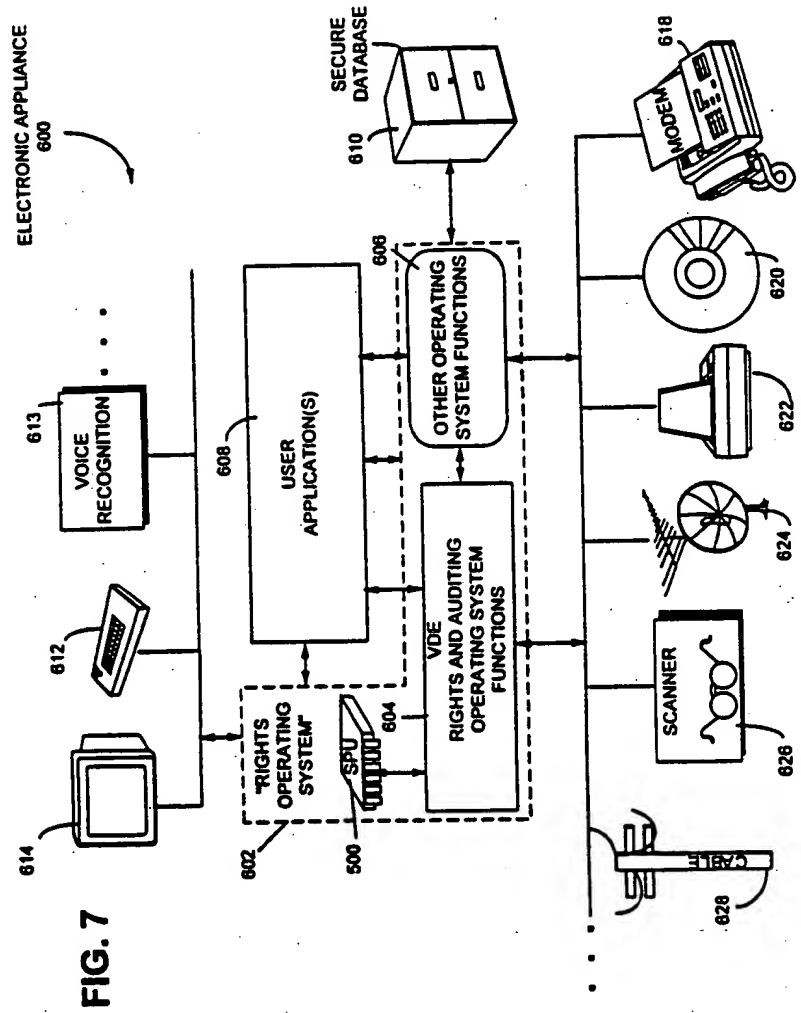
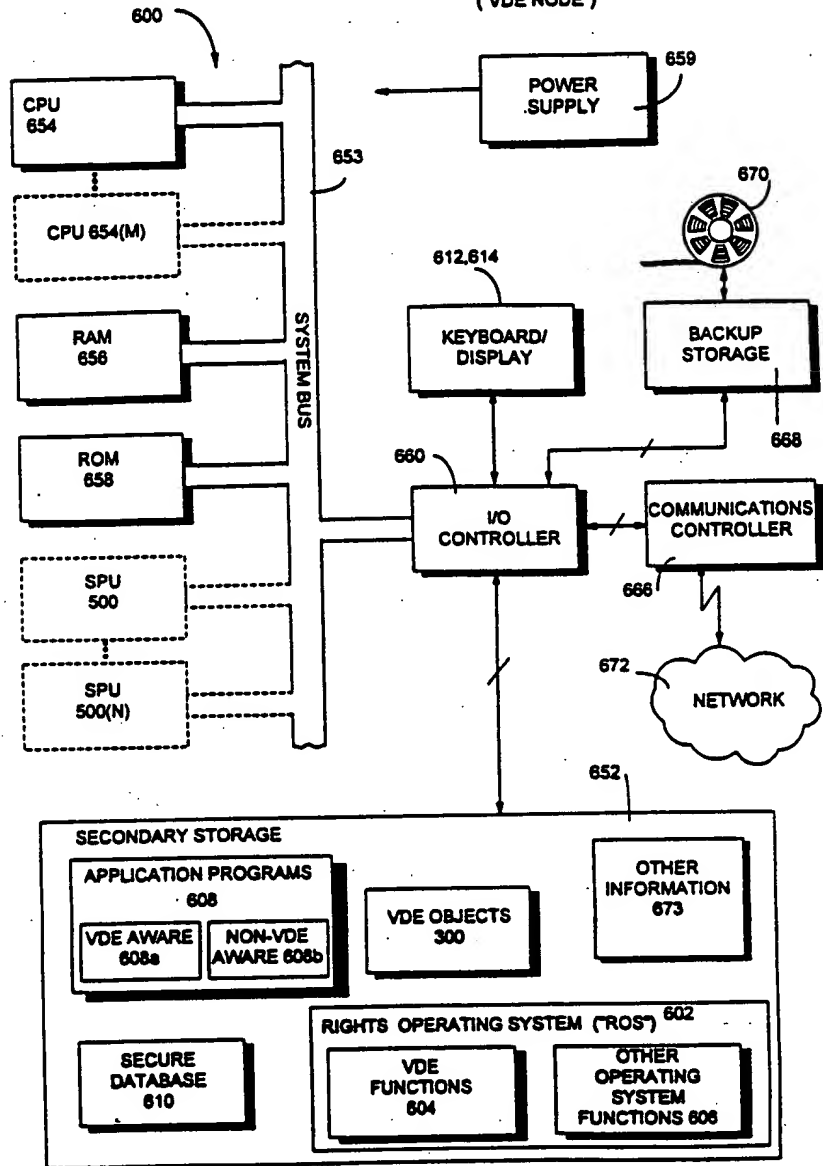


FIG. 8 ELECTRONIC APPLIANCE 600  
(VDE NODE)



09870801-10802860

FIG. 9

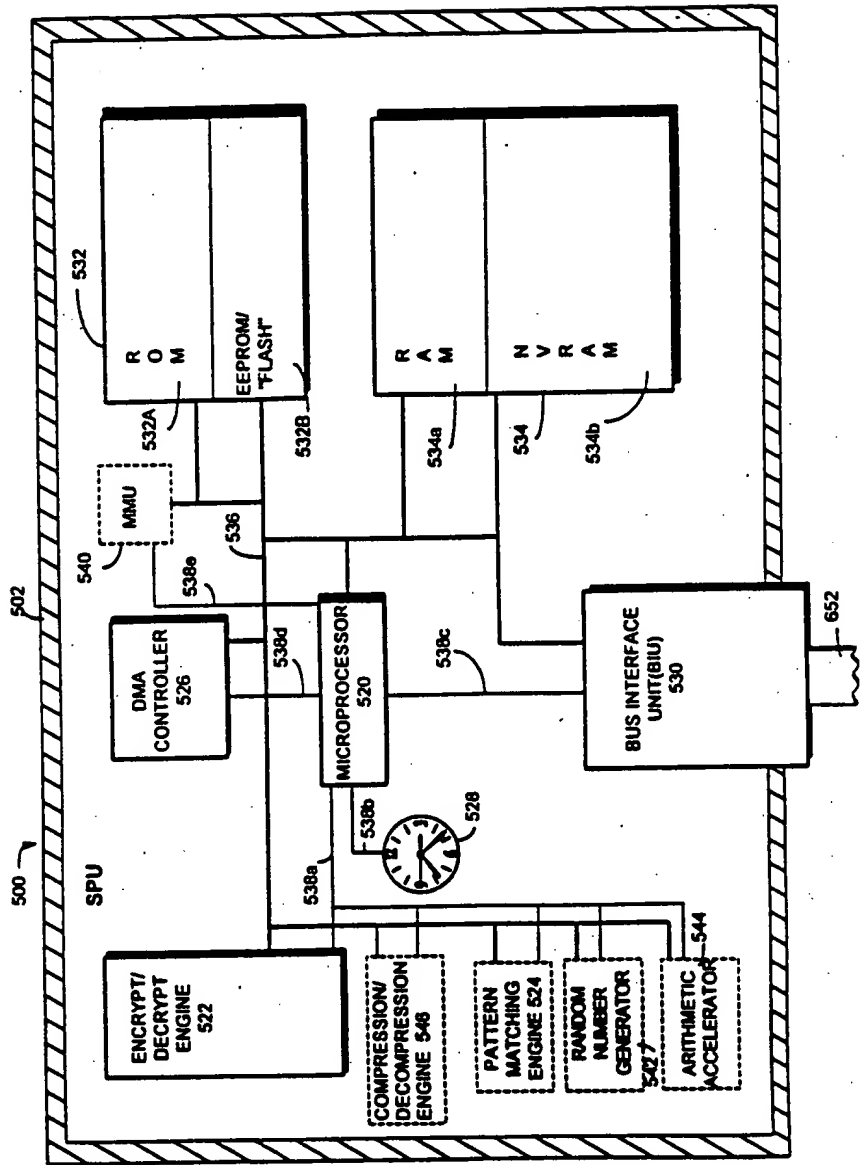
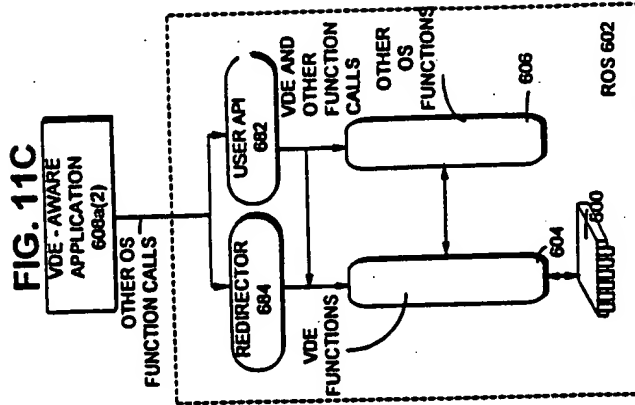


FIG. 9

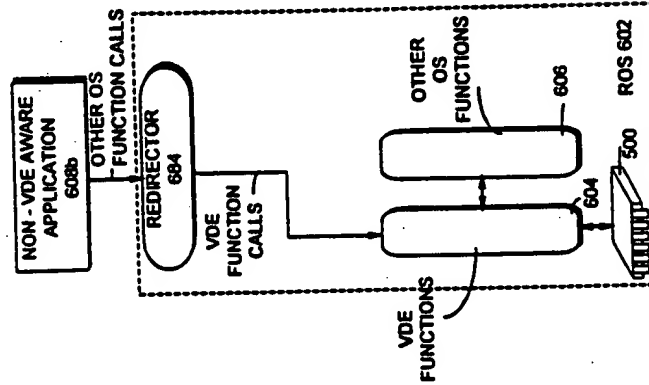


**VDE SOFTWARE ARCHITECTURE**

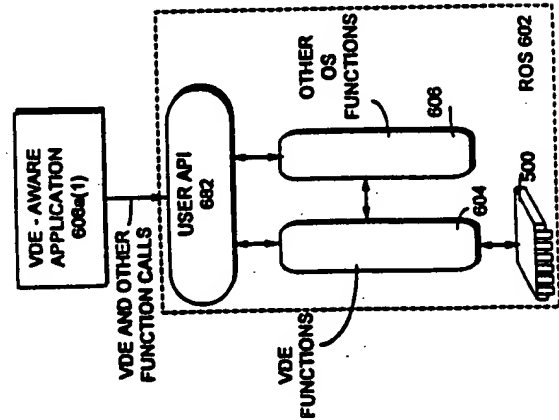
FIG. 11A



**FIG. 11B**



**FIG. 11C**



09870801-060101

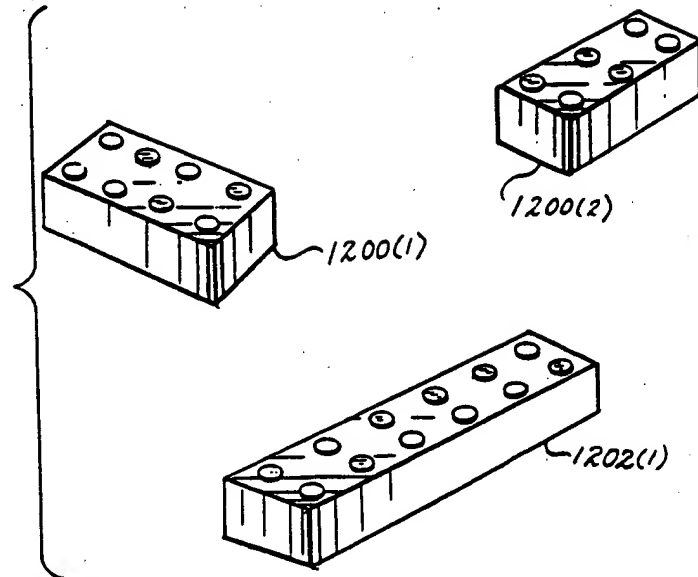


Fig. 11H  
DATA STRUCTURES

09870801.060101

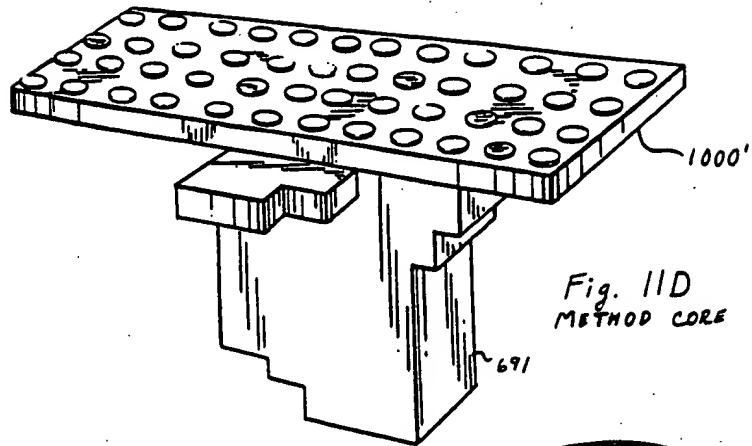


Fig. 11D  
METHOD CORE

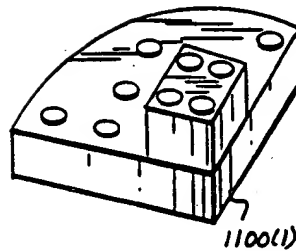


Fig. 11E  
LOAD MODULE  
WITH DTD

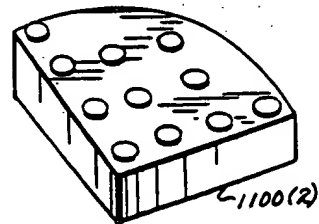


Fig. 11F  
LOAD MODULE

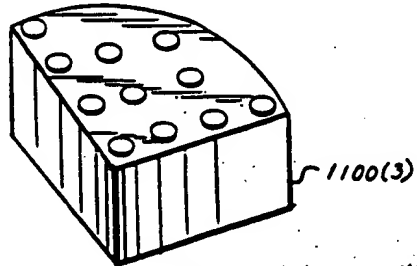
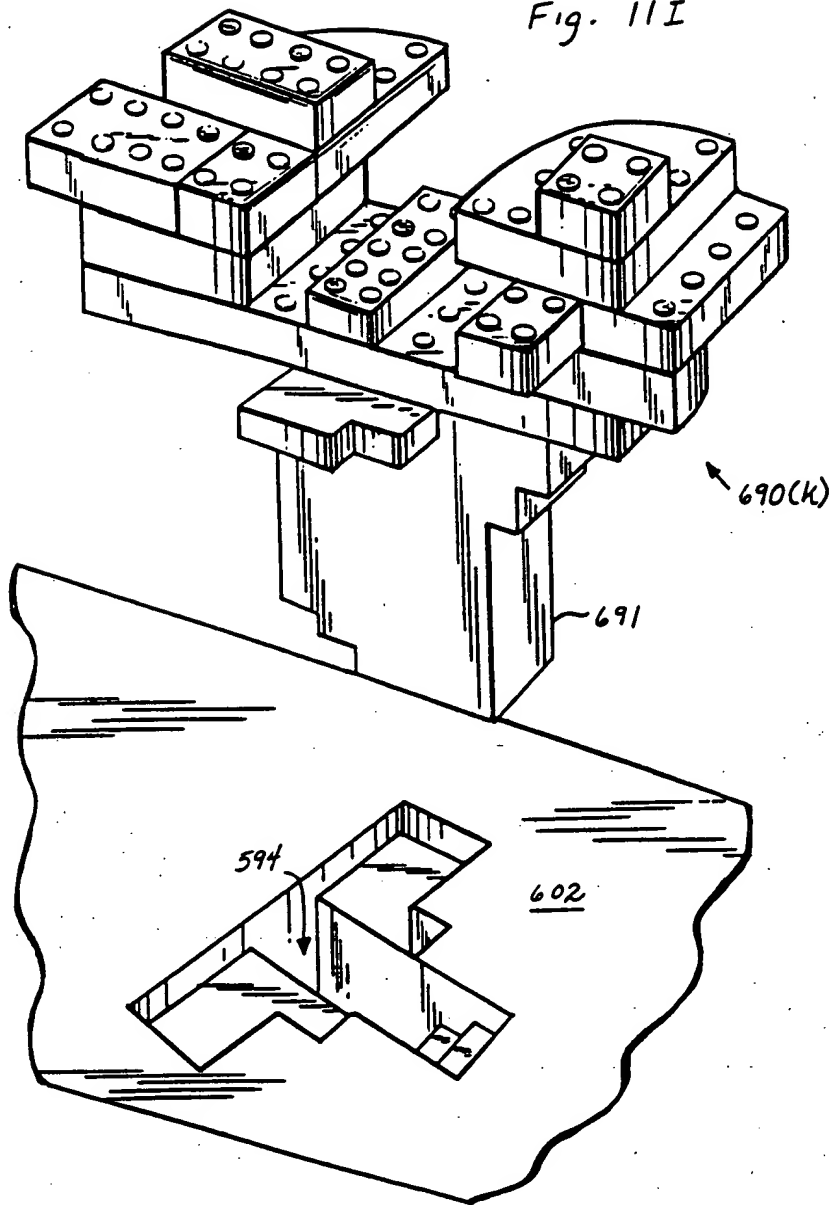


Fig. 11G LOAD MODULE

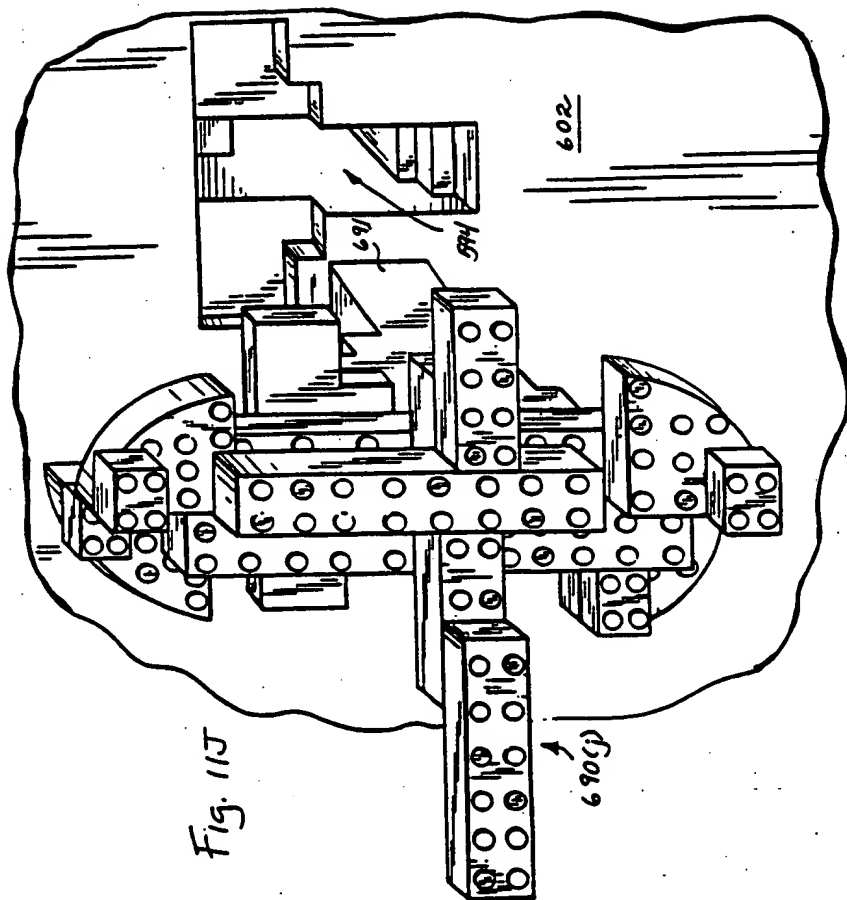


Fig. 11I

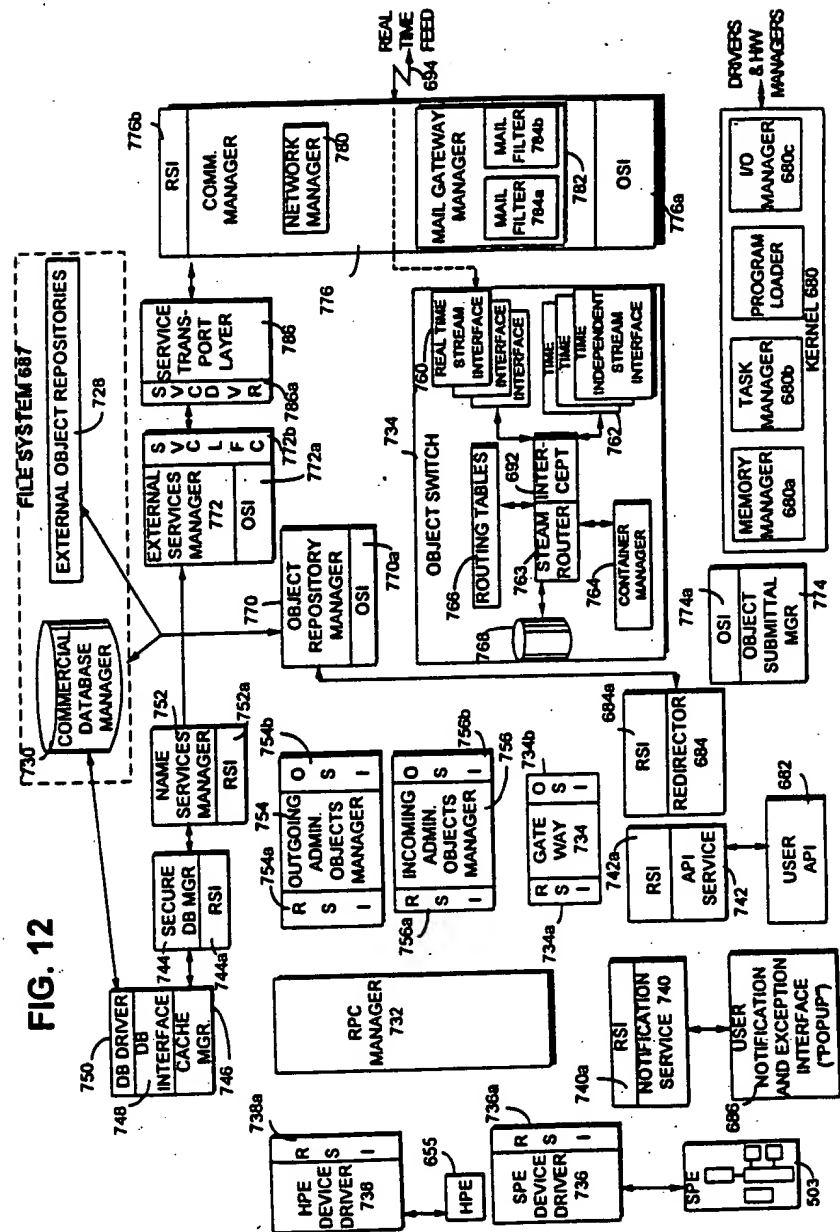


09870801-060101

09870801-060101



**FIG. 12**

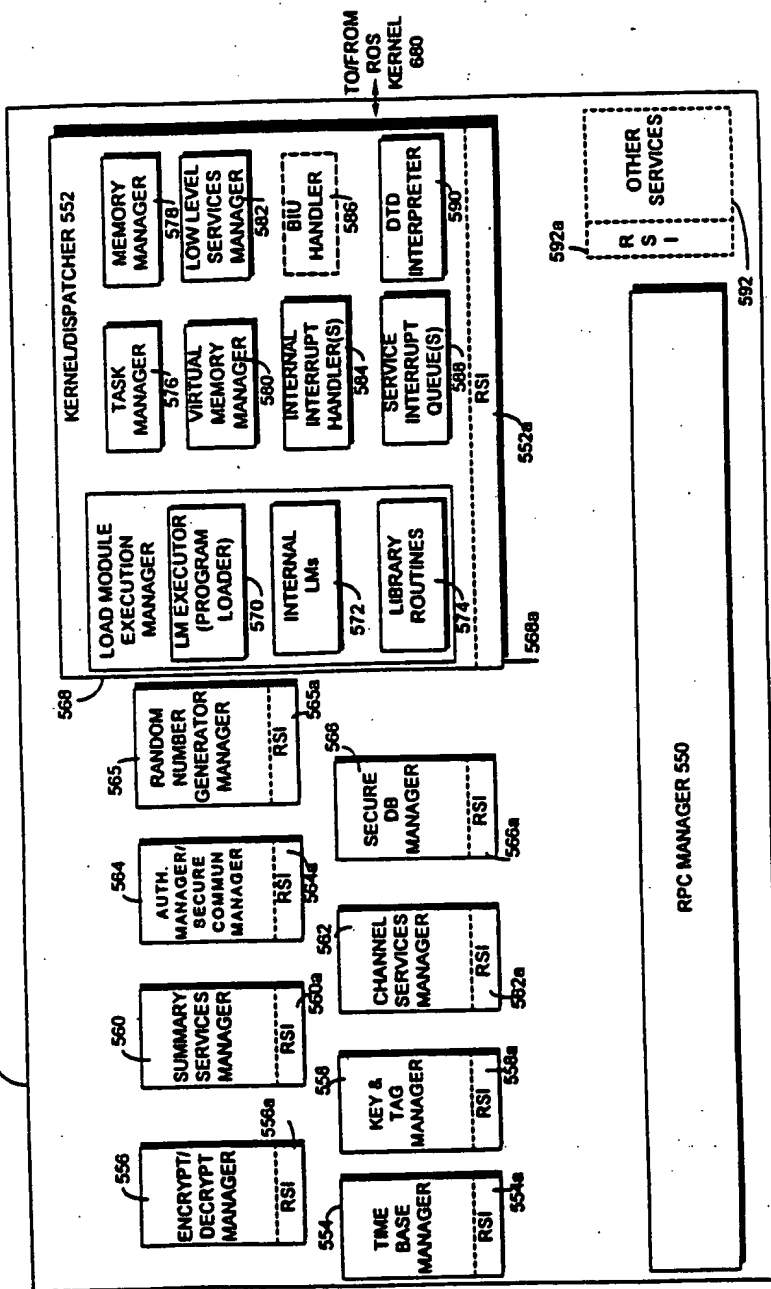


TO 090-10802860

FIG. 13

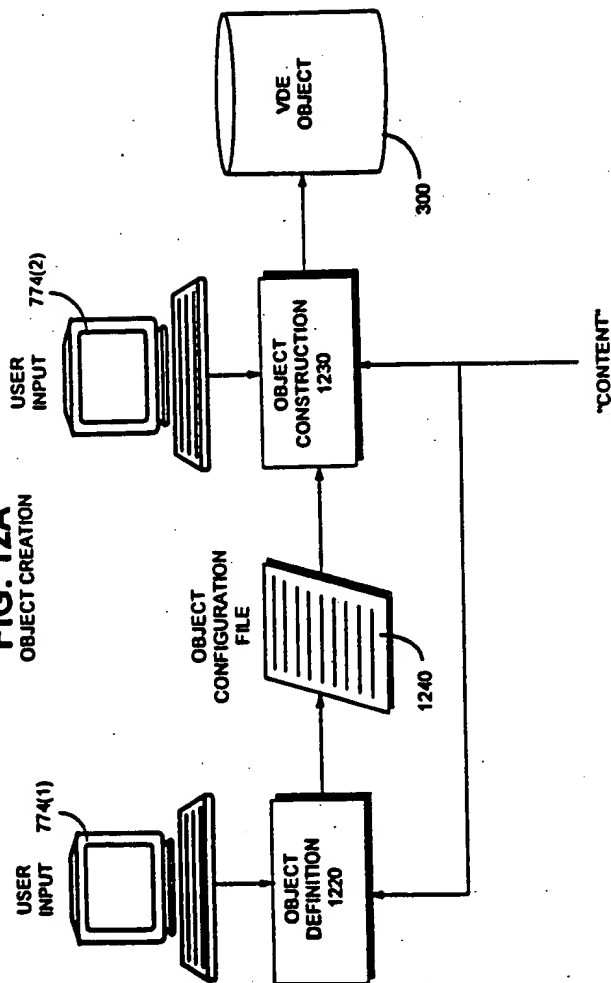
PROTECTED PROCESSING ENVIRONMENT 650

503, 655



T01090-F0802860

**FIG. 12A**  
OBJECT CREATION



09870804-060401

**DEVICE FIRM WIRE LOW LEVEL  
SERVICES 682**

INITIALIZATION
POST
DOWNLOAD CHALLENGE/RESPONSE AND AUTHENTICATION
RECOVERY
EEPROM/FLASH MEMORY MANAGER
<b>KERNEL/DISPATCHER 682</b>
INITIALIZATION
TASK MANAGER 576 (SLEEP/AWAKE/CONTEXT SWAP)
INTERRUPT HANDLER 584 (TIMER/BIU/POWER FAIL/WATCHDOG TIMER/ENCRYPTION COMPLETED)
BIU HANDLER 586
<b>MEMORY MANAGER 678</b>
INITIALIZATION (SETTING MMU TABLES)
ALLOCATE
DEALLOCATE
<b>VIRTUAL MEMORY MANAGER 680</b>
SWAP BLOCK PAGING
EXTERNAL MODULE PAGING
MEMORY COMPRESS
<b>RPC AND TABLES 680</b>
INITIALIZATION
MESSAGING CODE /SERVICES MANAGER
SEND/RECEIVE
STATUS
RPC DISPATCH TABLE
RPC SERVICE TABLE

**FIG. 14A**

**TIME BASE MANAGER 684**

**ENCRYPTION/DECRYPTION MANAGER 686**

PK
BULK
<b>KEY AND TAG MANAGER 688</b>
KEY STORAGE IN EEPROM
KEY LOCATOR
KEY GENERATOR
CONVOLUTION ALGORITHM
<b>SUMMARY SERVICES MANAGER 680</b>
EVENT SUMMARIES
BUDGET SUMMARIES
DISTRIBUTER SUMMARY SERVICES
<b>CHANNEL SERVICES MANAGER 682</b>
CHANNEL HEADERS
CHANNEL DETAILS
<b>LOAD MODULE EXECUTION SERVICES 688</b>
<b>AUTHENTICATION MANAGER/SECURE COMMUNICATION MANAGER 684</b>
<b>DATABASE MANAGER 686</b>
MANAGEMENT FILE SUPPORT
TRANSACTION AND SEQUENCE NUMBER SUPPORT
SRN/ HASH
DTD INTERPRETER 690
LIBRARY ROUTINES 674
I/O CALLS (STRING SEARCH ETC.)
MISC. ITEMS THAT ARE PROBABLY LIBRARY ROUTINES
TAG CHECKING, MDS, CRC'S
INTERNAL LM'S 672 FOR BASIC METHODS
METER LOAD MODULE(S)
BILLING LOAD MODULE(S)
BUDGET LOAD MODULE(S)
AUDIT LOAD MODULE(S)
READ OBJECT LOAD MODULE(S)
WRITE OBJECT LOAD MODULE(S)
OPEN OBJECT LOAD MODULE(S)
CLOSE OBJECT LOAD MODULE(S)

SPU ROM/EEPROM/FLASH 532

FIG. 14B

09870801-060101

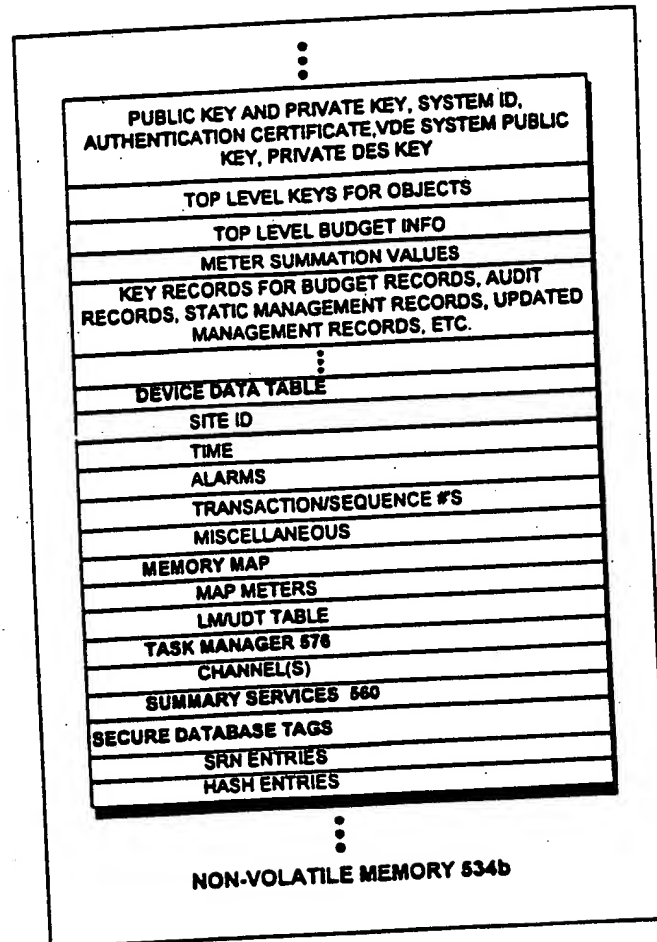
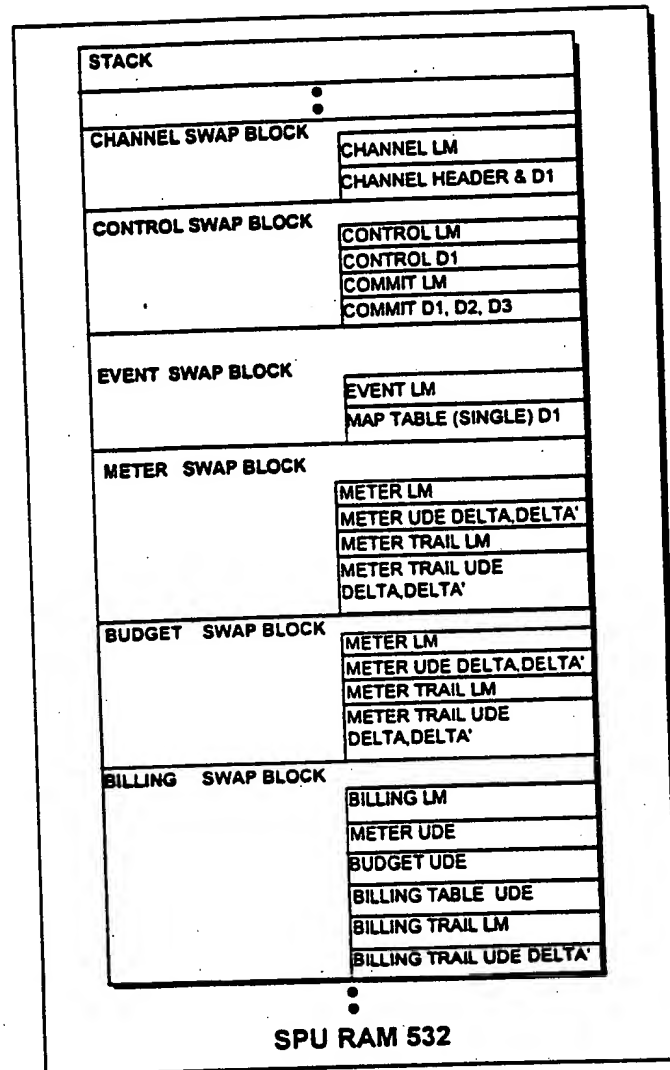


FIG. 14C

09870801-060101





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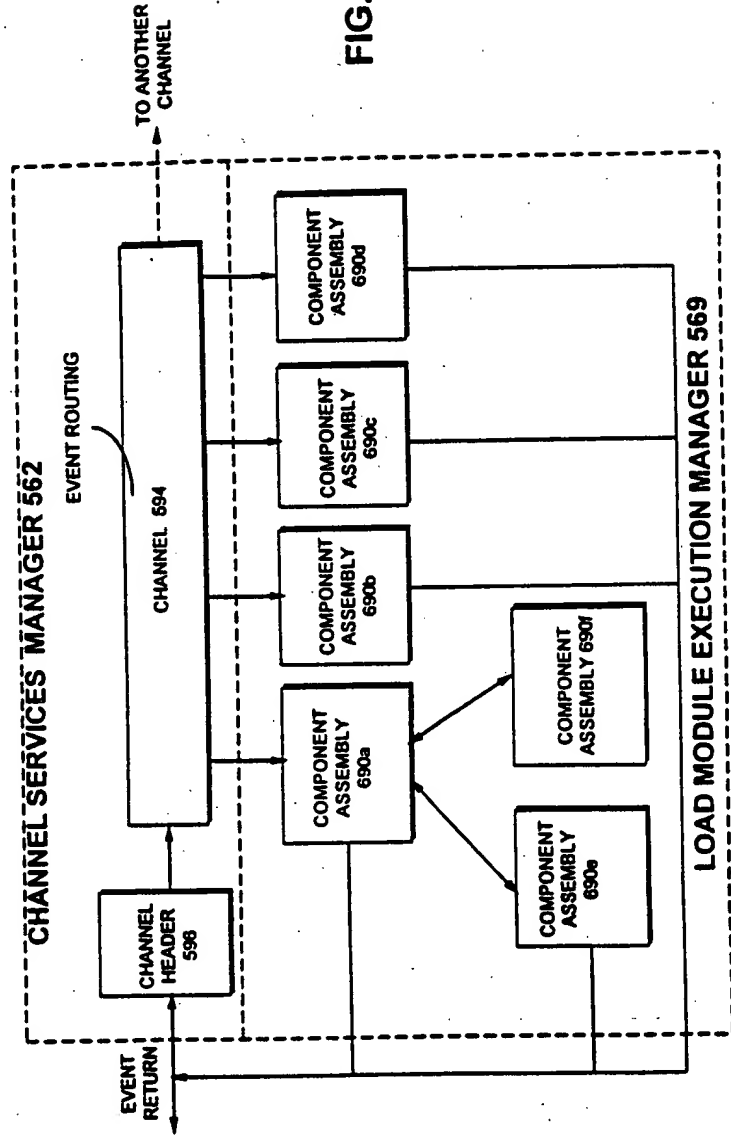
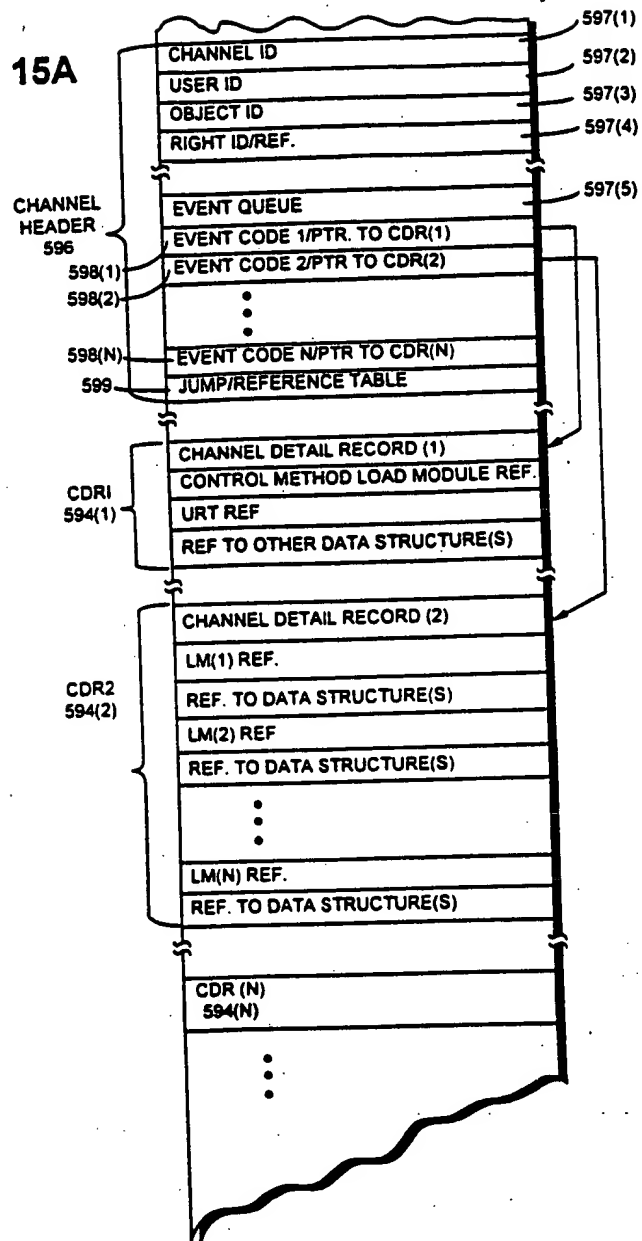


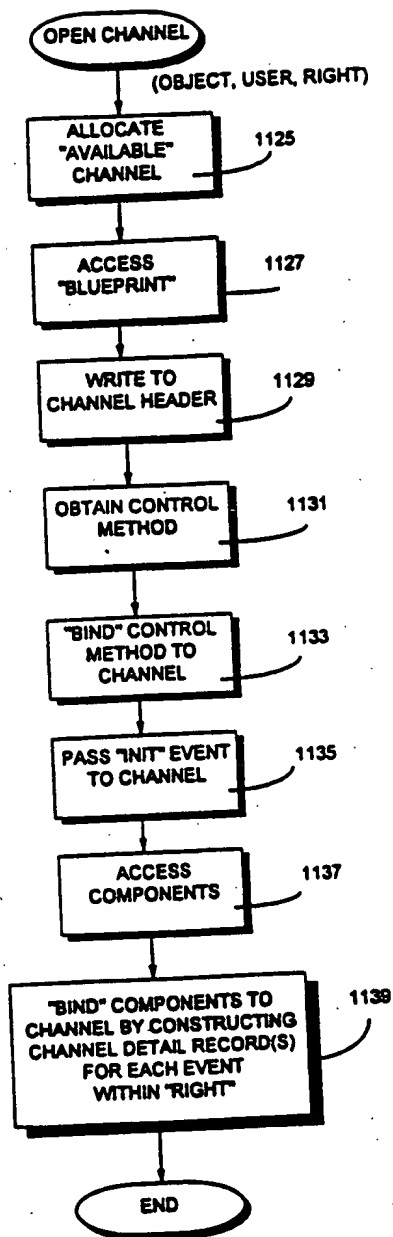
FIG. 15

FIG. 15A



09870801-060101

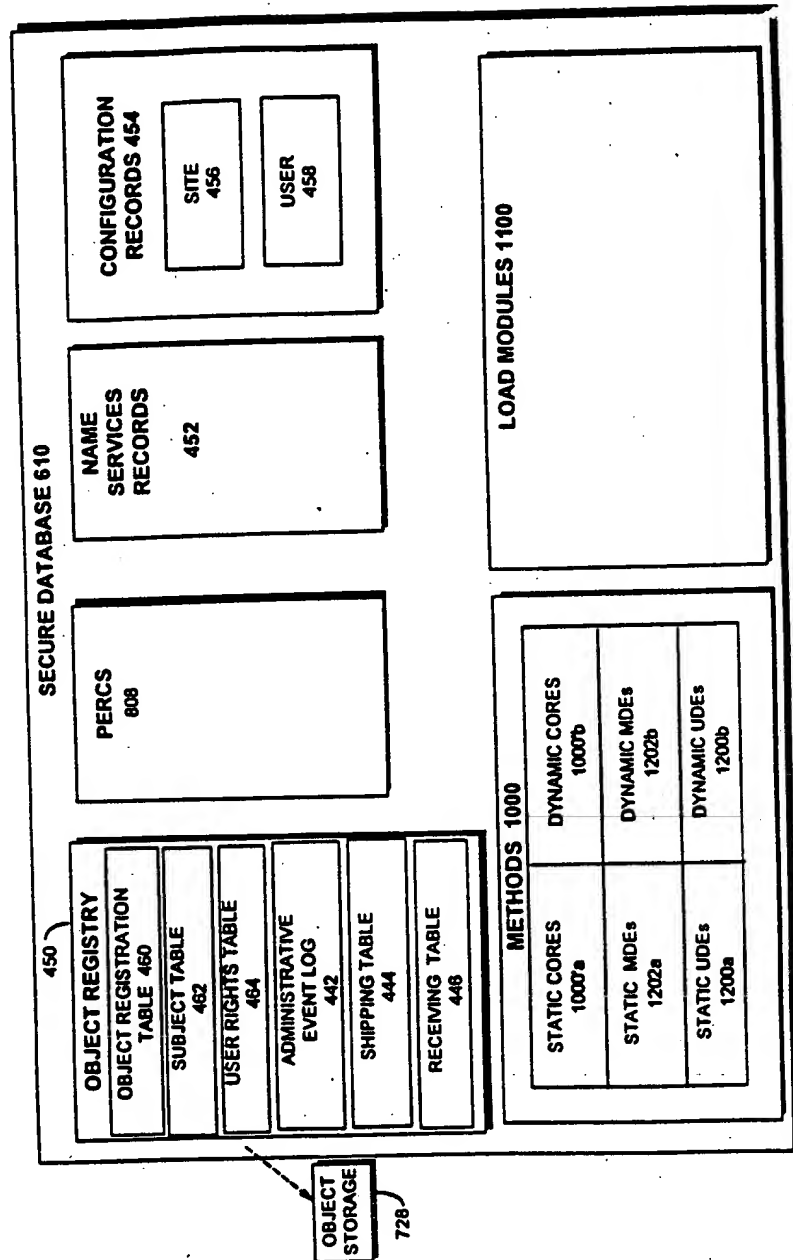
FIG. 15B



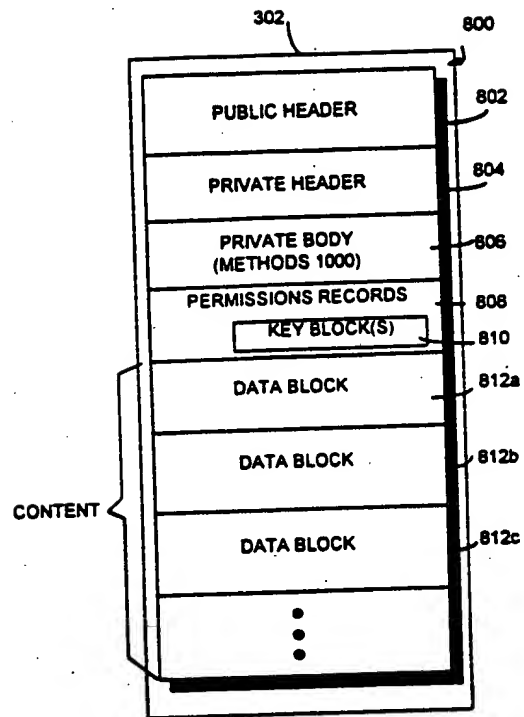
09870801-060101

FOI090-10807860

FIG. 16



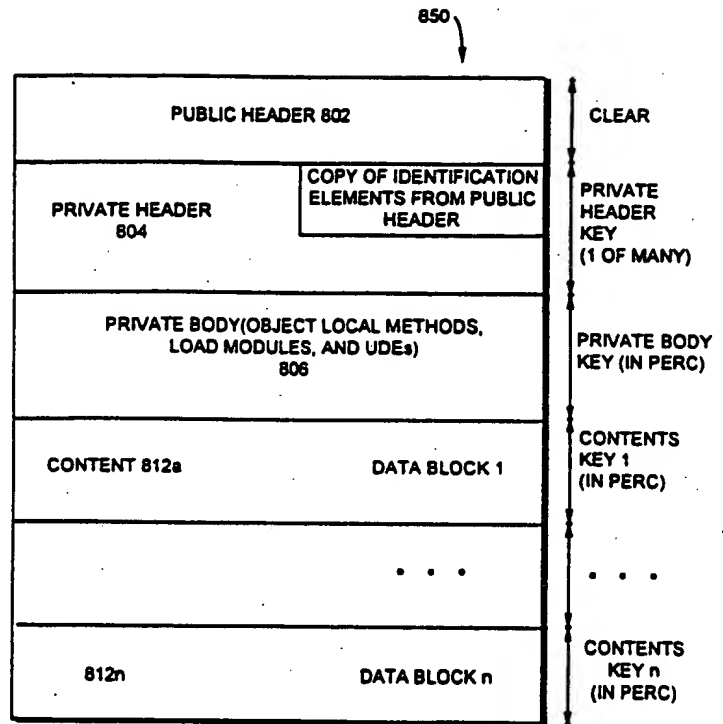
09870801-060101



LOGICAL OBJECT

FIG. 17

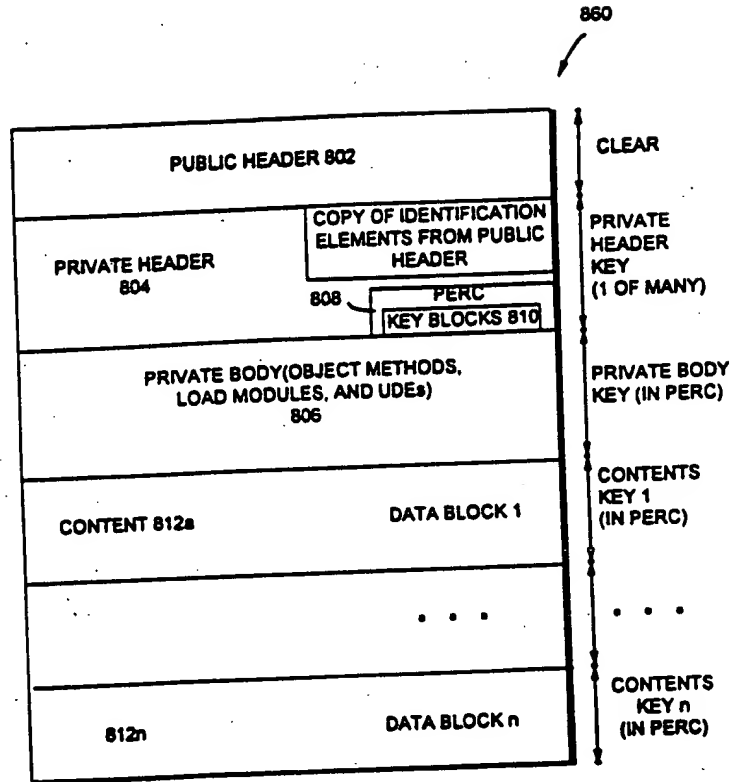
09870801-060101



STATIONARY OBJECT

FIG. 18

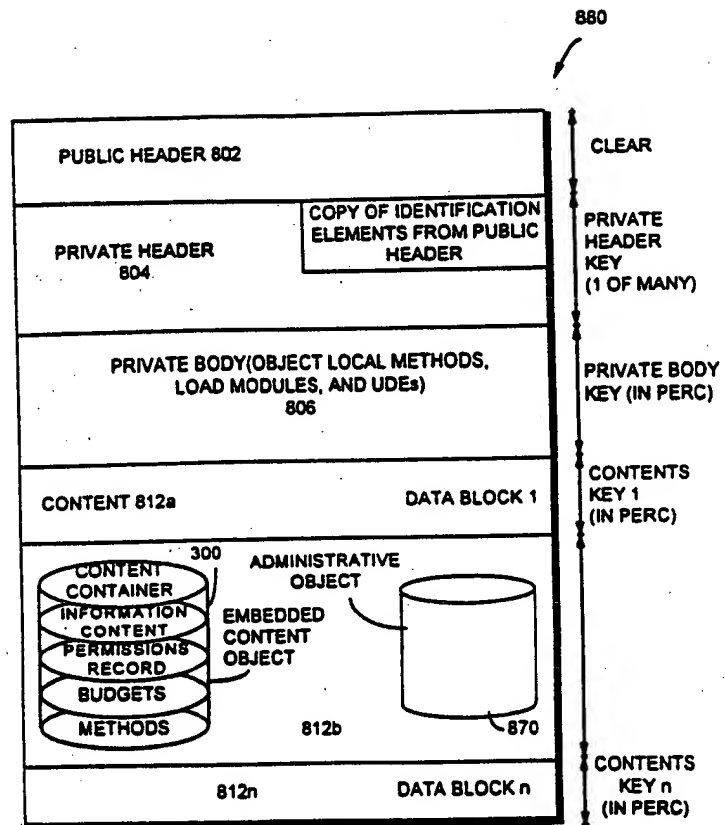
09870801-060101



TRAVELING OBJECT

FIG. 19

0870801-060101

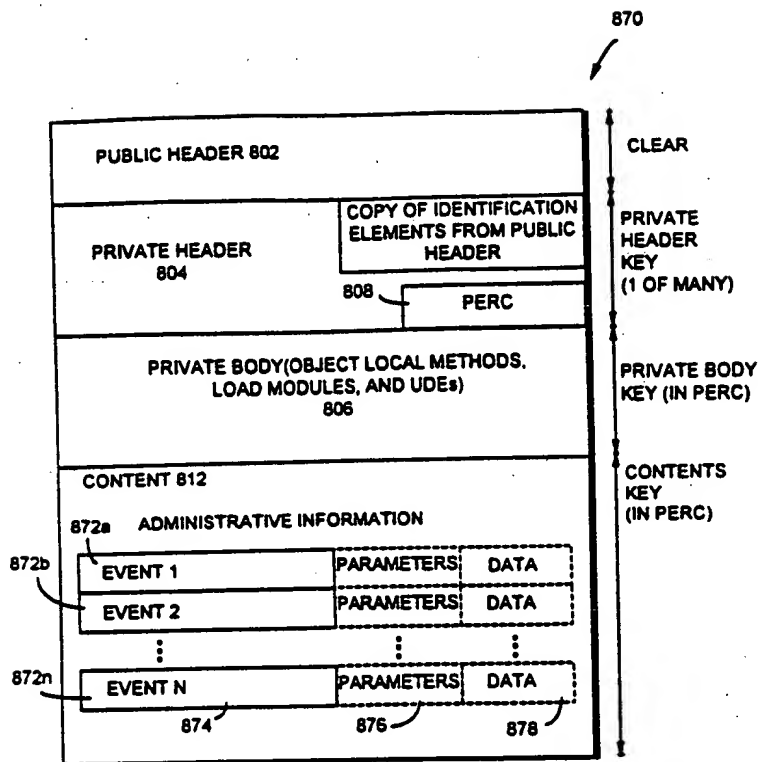


CONTENT OBJECT

FIG. 20

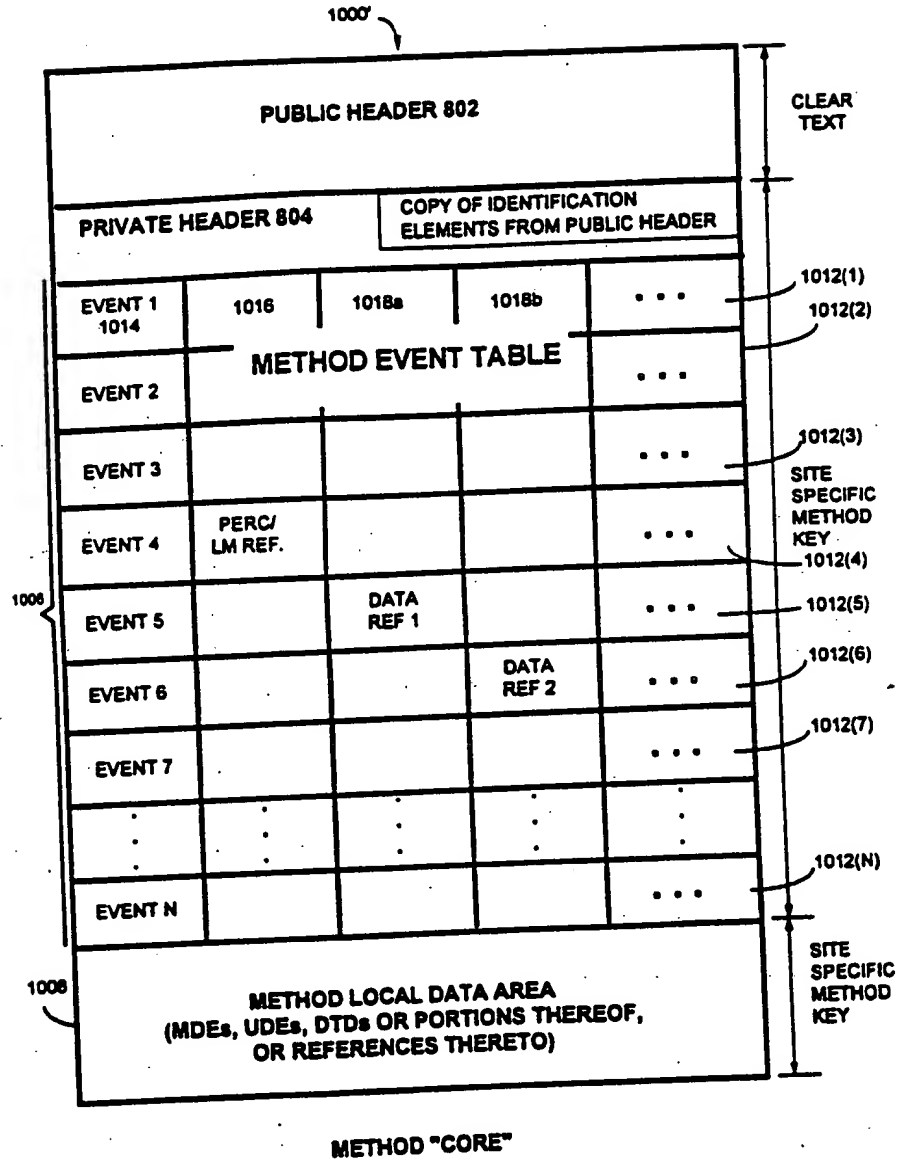


09870801-060101



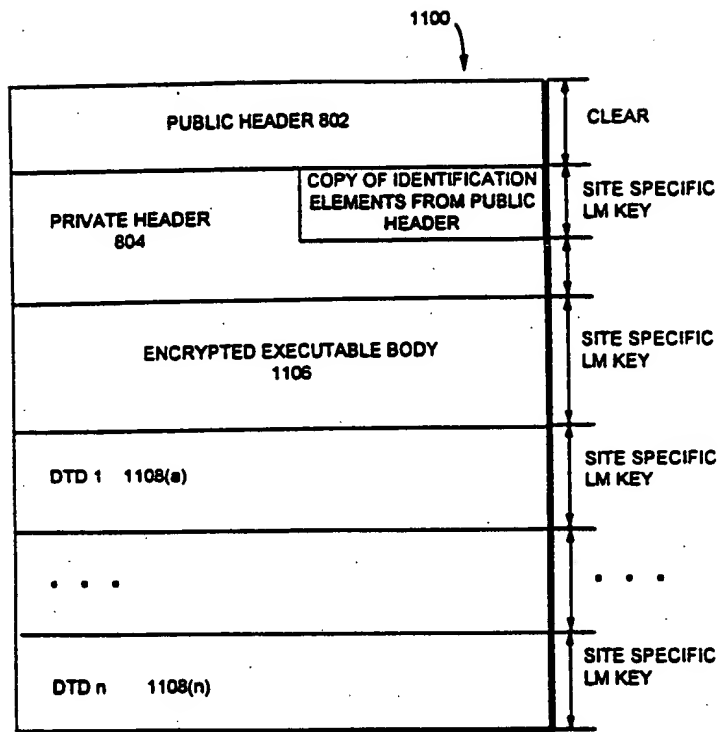
ADMINISTRATIVE OBJECT  
**FIG. 21**

FIG. 22



09870801.060100

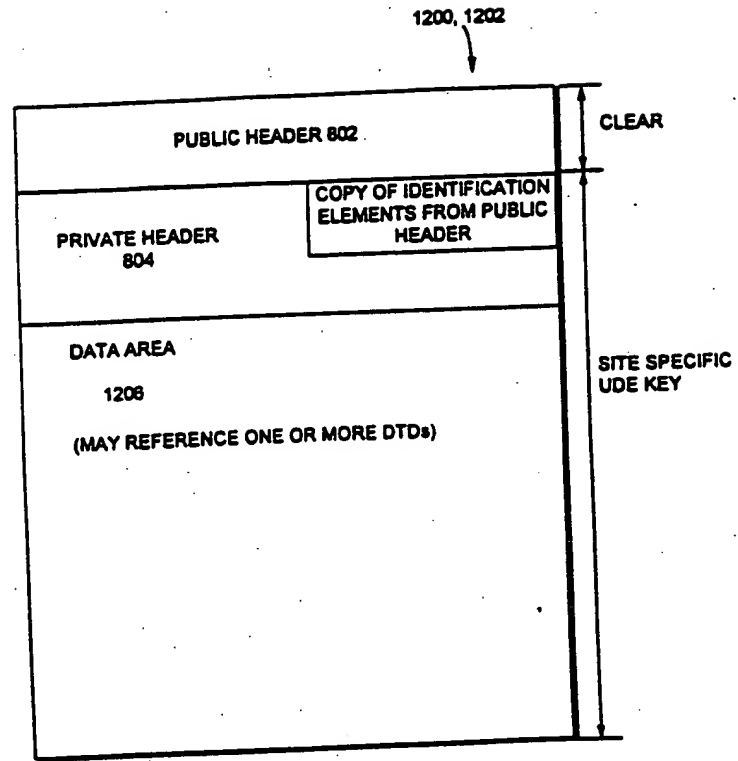
FIG. 23



LOAD MODULE

09870801-060101

FIG. 24



UDE (MDE)

09870801-060101

FIG. 25A

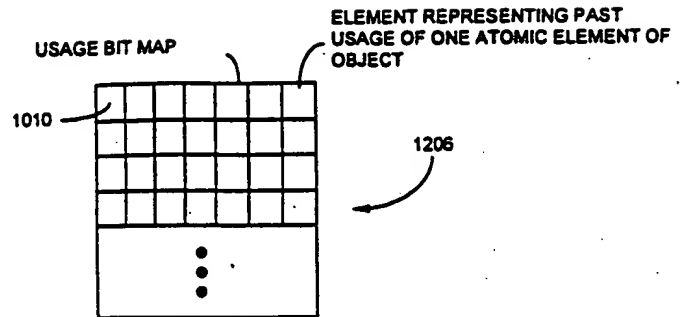


FIG. 25B

TIME

JAN. FEB. MAR. APRIL MAY JUNE

RECORDING  
NUMBER

1	0	2	0	1	0	0
2	0	0	5	10	3	0
3	0	3	2	1	0	
4	0	0	0	1	0	
5	0	0	1	0		
6	0	0	0			

1208

FIG. 25C

09870801.060101

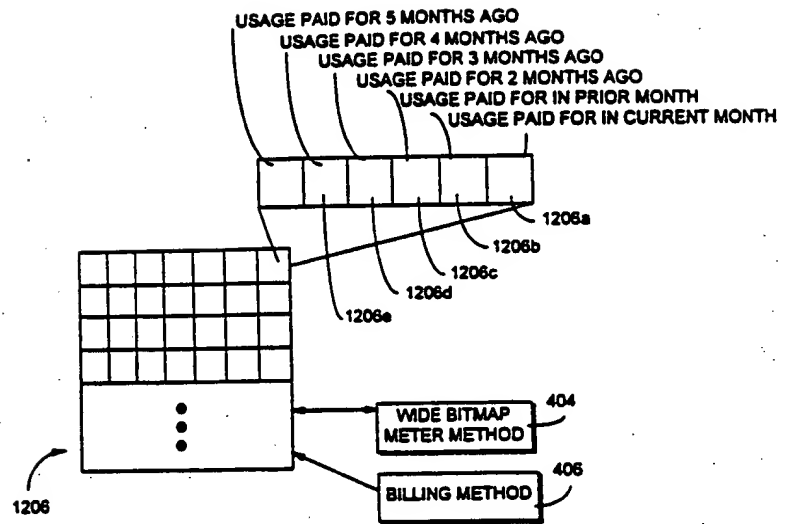


FIG. 25C

09870801.060101

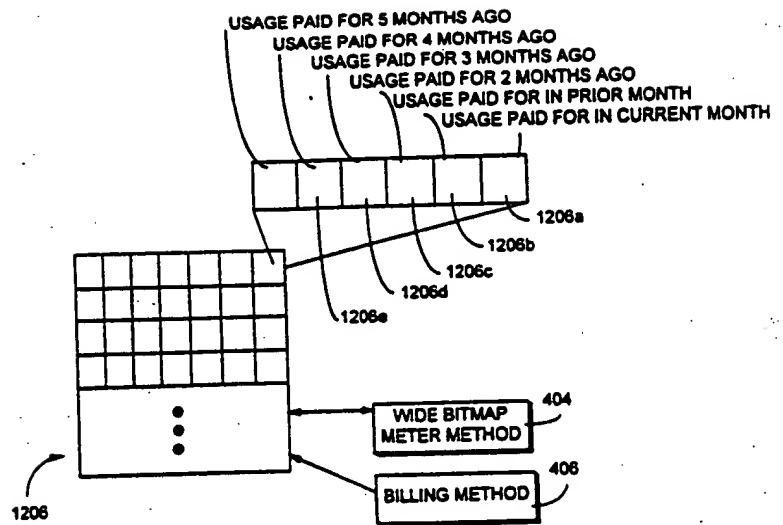
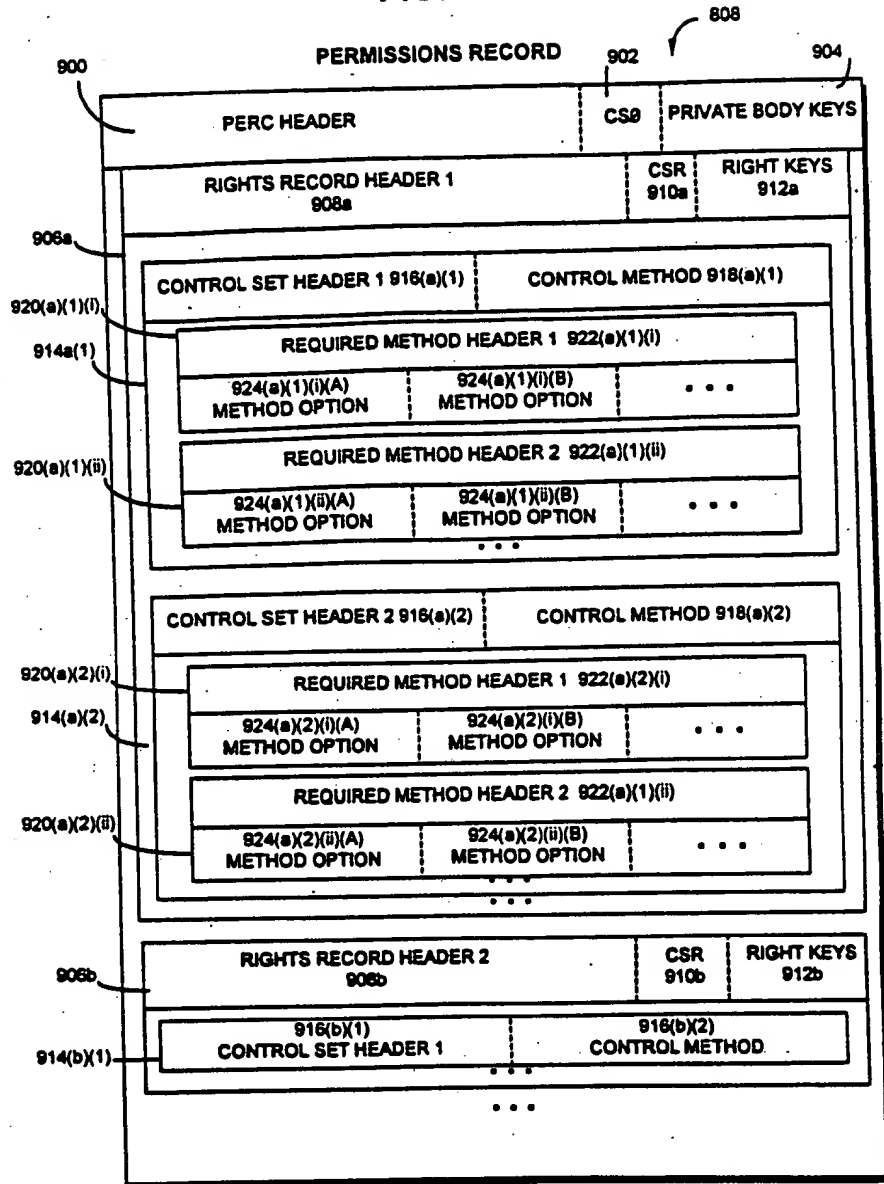


FIG. 26

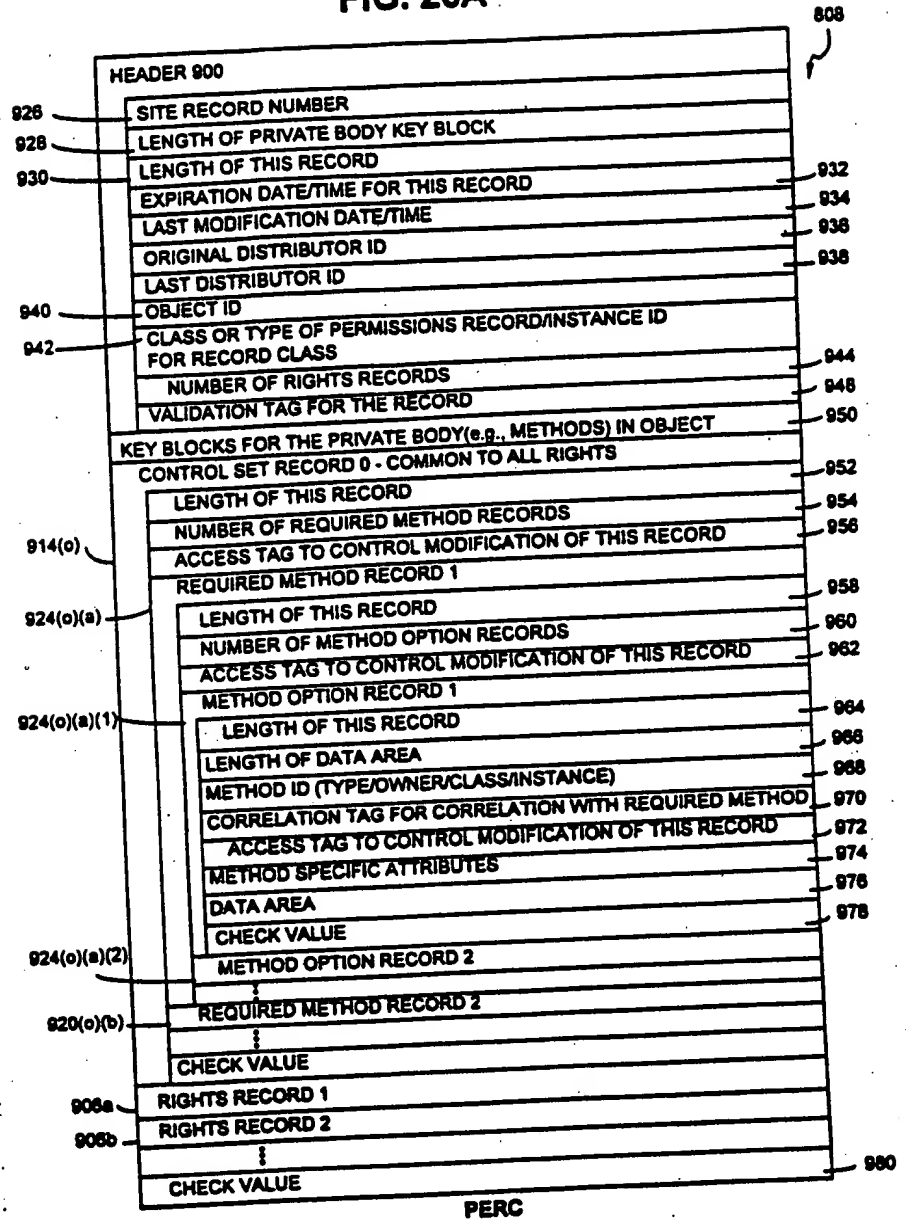


09870801-060101



FIG. 26A

09870801-060101



906a



FIG. 27  
SHIPPING TABLE

09870801-060101

HEADER 444A	444A(1)		SITE RECORD NUMBER	444
			USER (GROUP) ID	444A(2)
			REF. TO "FIRST" COMPLETED OUTGOING SHIPPING RECORD	444A(3)
			REF. TO "LAST" COMPLETED OUTGOING SHIPPING RECORD	444A(4)
			REF. TO "FIRST" SCHEDULED OUTGOING SHIPPING RECORD	444A(5)
			REF. TO "LAST" SCHEDULED OUTGOING SHIPPING RECORD	444A(6)
			VALIDATION TAG FROM NAME SERVICES RECORD	444A(7)
			VALIDATION TAG FOR "FIRST" OUTGOING SHIPPING RECORD(S)	444A(8)
			CHECK VALUE	444A(9)
SHIPPING RECORD 445(1)			SITE RECORD NUMBER	445(1)(A)
			FIRST DATE/TIME FOR SCHEDULED SHIPMENT	445(1)(B)
			LAST DATE/TIME FOR SCHEDULED SHIPMENT	445(1)(C)
			ACTUAL DATE/TIME OF COMPLETED SHIPMENT	445(1)(D)
			OBJECT ID OF ADMINISTRATIVE OBJECT (TO BE) SHIPPED	445(1)(E)
			REF. TO ENTRY IN ADMINISTRATIVE EVENT LOG	445(1)(F)
			REF. TO NAME SERVICES RECORD NAMING RECIPIENT	445(1)(G)
			PURPOSE OF SHIPMENT	445(1)(H)
			STATUS OF SHIPMENT	445(1)(I)
			REF. TO "PREVIOUS" OUTGOING SHIPPING RECORD	445(1)(J)
			REF. TO "NEXT" OUTGOING SHIPPING RECORD	445(1)(K)
			VALIDATION TAG FROM HEADER	445(1)(L)
			VALIDATION TAG TO ADMINISTRATIVE EVENT LOG	445(1)(M)
			VALIDATION TAG TO NAME SERVICES RECORD	445(1)(N)
			VALIDATION TAG FROM PREVIOUS RECORD	445(1)(O)
			VALIDATION TAG TO NEXT RECORD	445(1)(P)
			CHECK VALUE	445(1)(Q)
			SHIPPING RECORD N	445(1)(R)

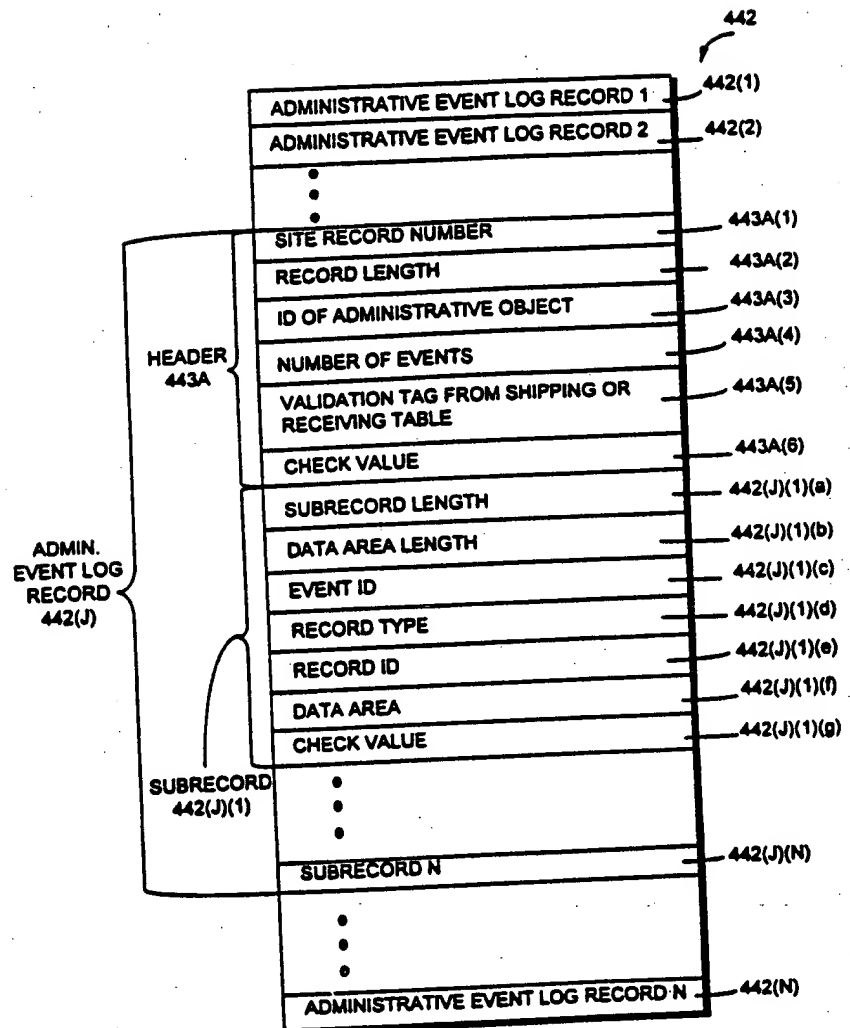
**FIG. 28**  
RECEIVING TABLE

09870801-060101

		446A(1)	
HEADER 446A	SITE RECORD NUMBER		446
	USER (GROUP) ID		446A(2)
	REF. TO "FIRST" COMPLETED INCOMING RECEIVING RECORD		446A(3)
	REF. TO "LAST" COMPLETED INCOMING RECEIVING RECORD		446A(4)
	REF. TO "FIRST" SCHEDULED INCOMING RECEIVING RECORD		446A(5)
	REF. TO "LAST" SCHEDULED INCOMING RECEIVING RECORD		446A(6)
	VALIDATION TAG FROM NAME SERVICES RECORD		446A(7)
	VALIDATION TAG FOR "FIRST" INCOMING RECEIVING RECORD(S)		446A(8)
	CHECK VALUE		446A(9)
RECEIVING RECORD 447(1)	SITE RECORD NUMBER		447(1)(A)
	FIRST DATE/TIME FOR SCHEDULED RECEPTION		447(1)(B)
	LAST DATE/TIME FOR SCHEDULED RECEPTION		447(1)(C)
	ACTUAL DATE/TIME OF COMPLETED RECEPTION		447(1)(D)
	OBJECT ID OF ADMINISTRATIVE OBJECT (TO BE) RECEIVED		447(1)(E)
	REF. TO ENTRY IN ADMINISTRATIVE EVENT LOG		447(1)(F)
	REF. TO NAME SERVICES RECORD NAMING SENDER		447(1)(G)
	PURPOSE OF RECEPTION		447(1)(H)
	STATUS OF RECEPTION		447(1)(I)
	REF. TO "PREVIOUS" INCOMING RECEIVING RECORD		447(1)(J)
	REF. TO "NEXT" INCOMING RECEIVING RECORD		447(1)(K)
	VALIDATION TAGS		447(1)(L)
	CHECK VALUE		447(1)(M)
	⋮		
	RECEIVING RECORD N		447(2)

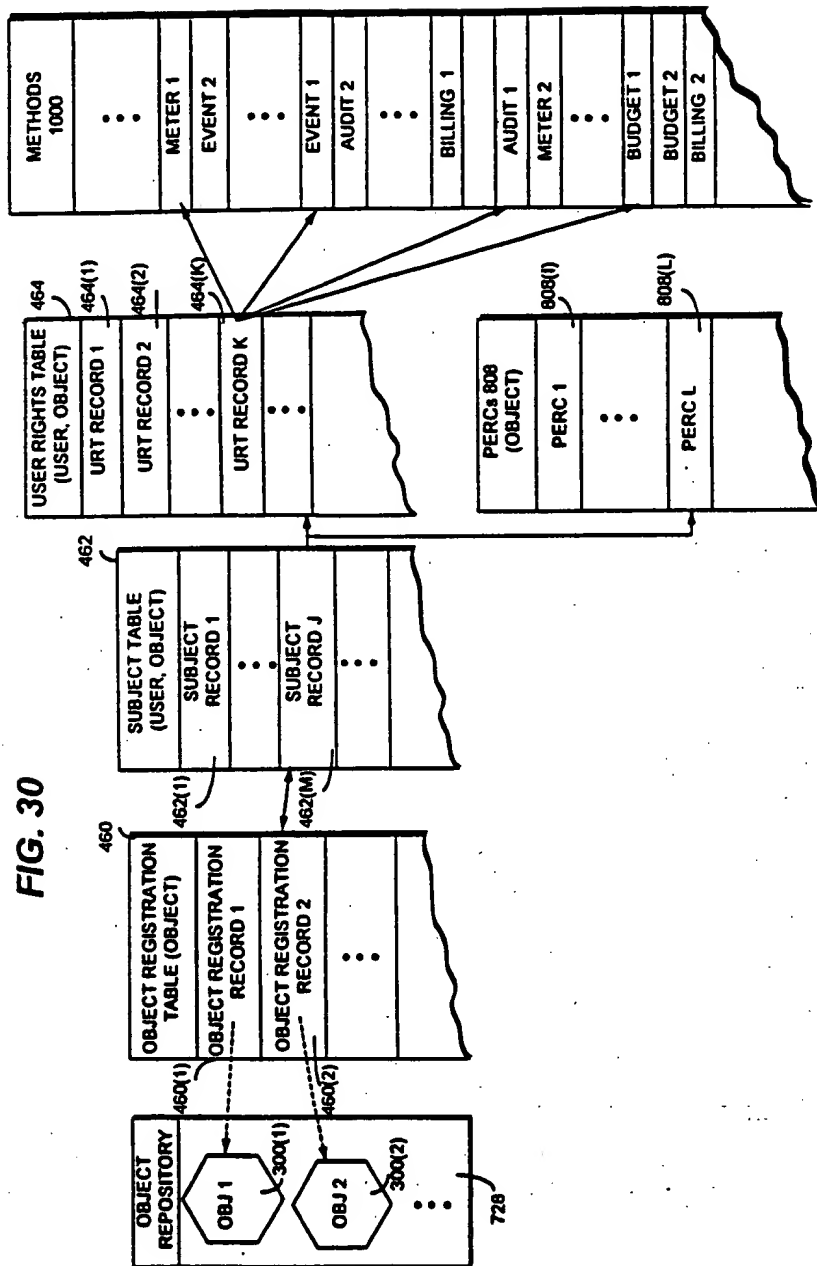
**FIG. 29**  
ADMINISTRATIVE EVENT LOG

09870801:060101

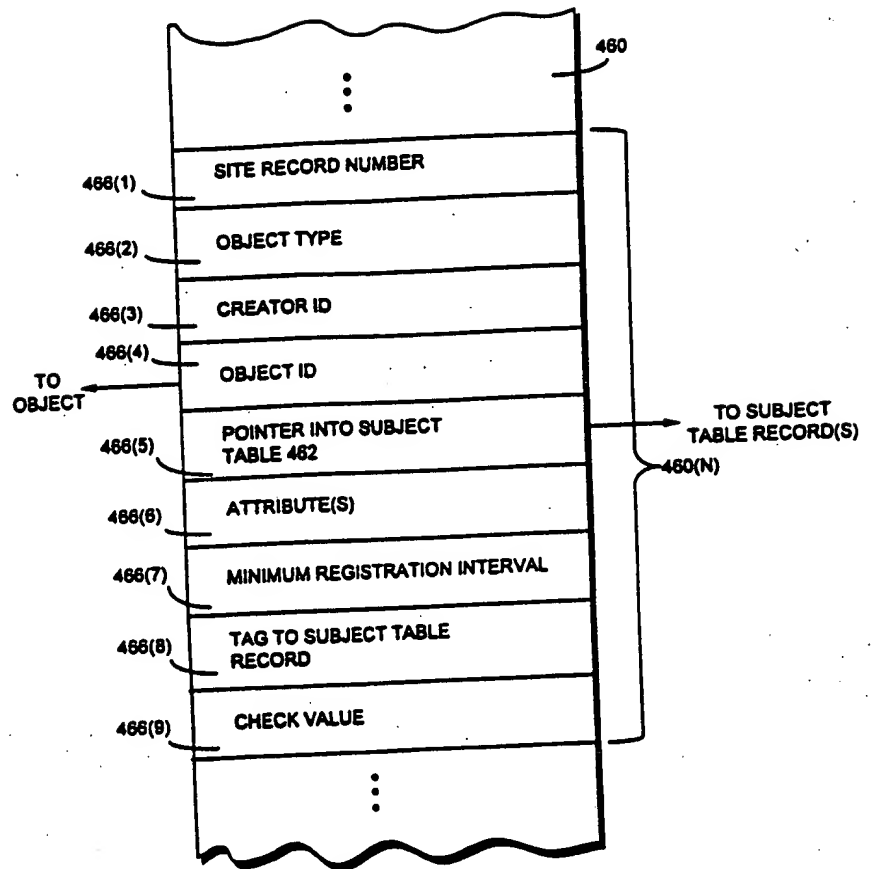


"FOI090" 10804860

FIG. 30



09870801-060101



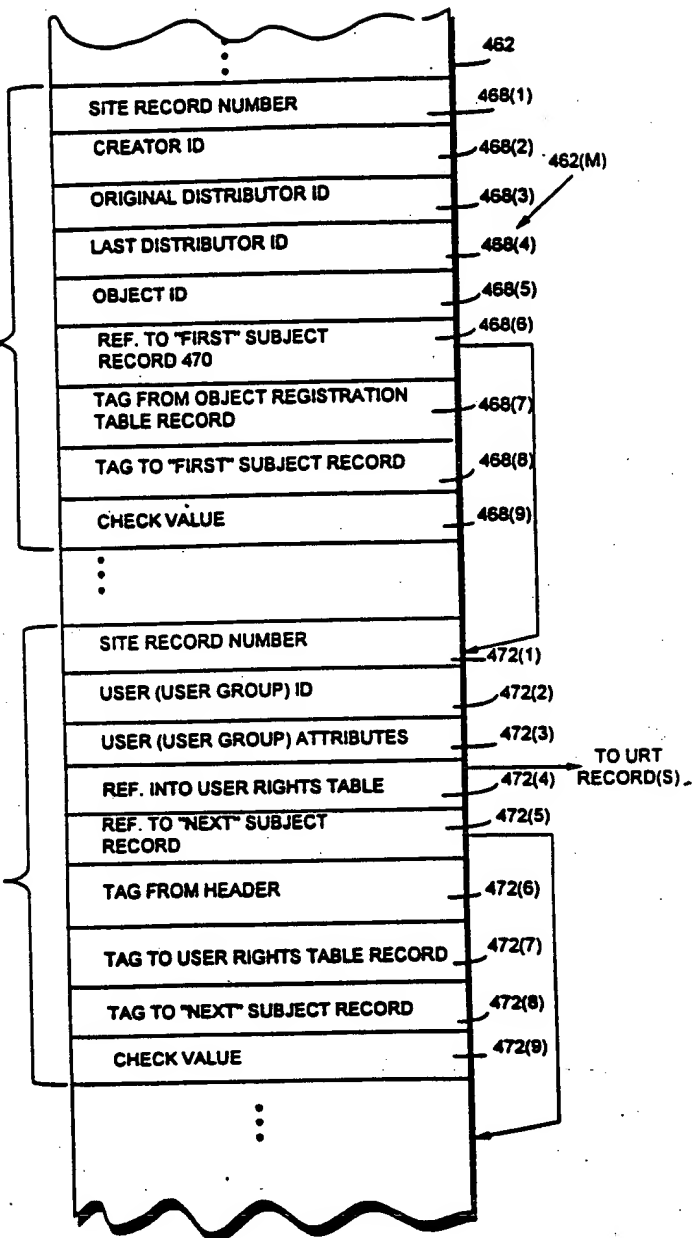
**FIG. 31**  
OBJECT REGISTRATION TABLE

FIG. 32

SUBJECT  
TABLE

"HEADER"  
468

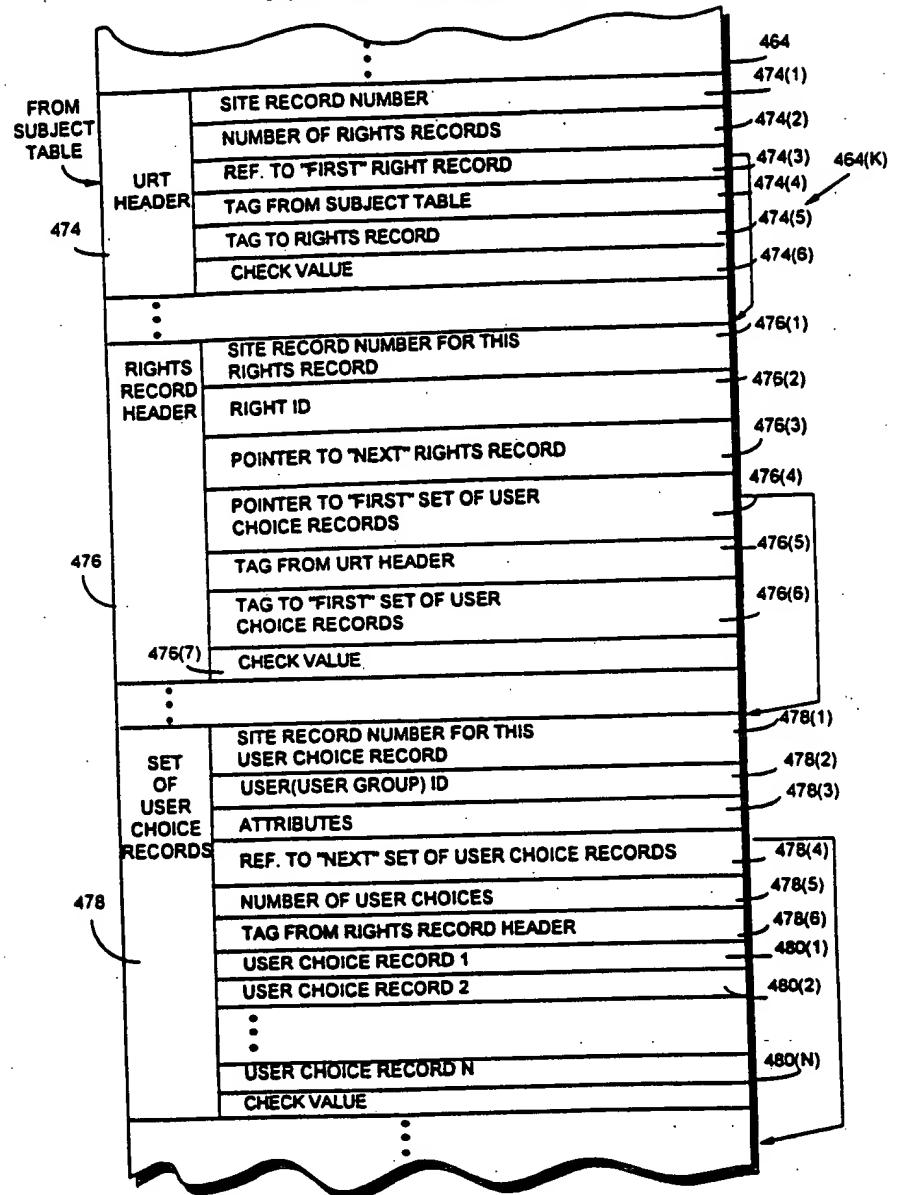
SUBJECT  
RECORD  
470(1)



09870801-10802860

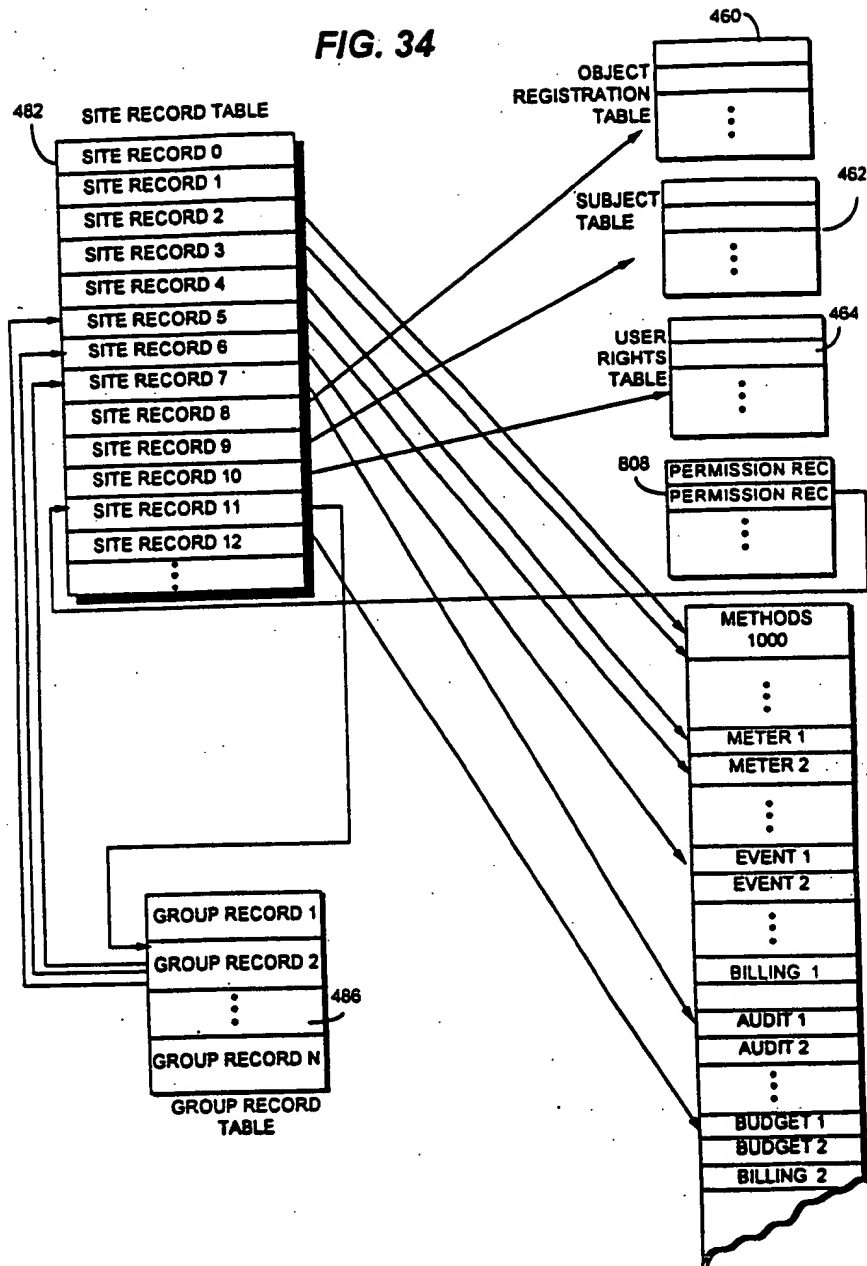


FIG. 33 USER RIGHTS TABLE



0970301-050104

FIG. 34



09870801.06101

**FIG. 34A**

**SITE RECORD**

482(J)		482
TYPE OF RECORD		484(1)
OWNER OR CREATOR OF RECORD		484(2)
CLASS		484(3)
INSTANCE		484(4)
TYPE SPECIFIC DESCRIPTOR (e.g., OBJECT ID) ASSOCIATED WITH RECORD		484(5)
TABLE IN WHICH THE RECORD IS LOCATED		484(6)
POINTER - OFFSET, WITHIN THE TABLE, TO WHERE THE RECORD BEGINS		484(7)
RECORD LENGTH		484(8)
VALIDATION TAG FOR RECORD		484(9)
CHECK VALUE		484(10)

09870801-060101

FIG. 34B

GROUP RECORD

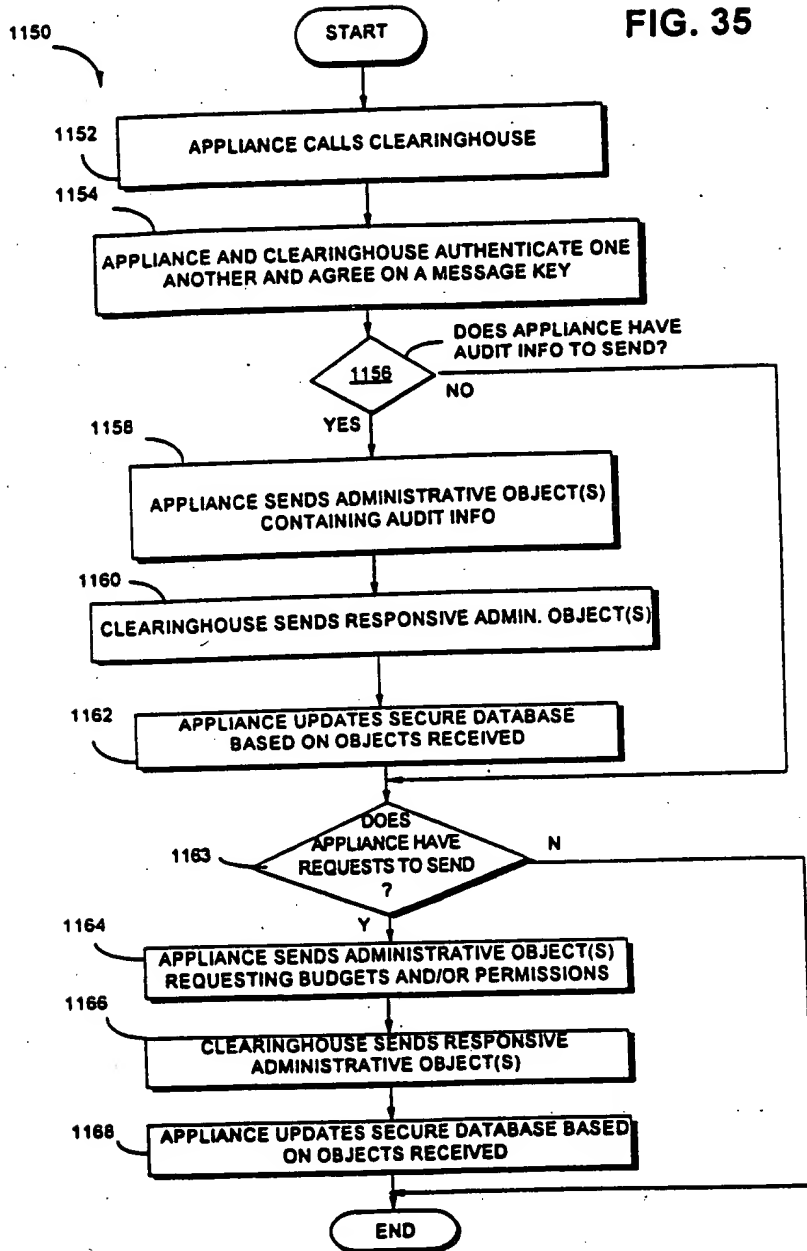
486

486(J)

SITE RECORD NUMBER	488(1)
NUMBER OF REFERENCE SUBRECORDS	488(2)
VALIDATION TAG FOR GROUP OF RECORDS	488(3)
REFERENCE SUBRECORD 1	488(4)
REF.(SITE RECORD NUMBER 1) FOR 1ST RECORD IN GROUP	490(A)
VALIDATION TAG FOR RECORD	490(B)
REFERENCE SUBRECORD 2	488(5)
REF.(SITE RECORD NUMBER 2) FOR 1ST RECORD IN GROUP	490(C)
VALIDATION TAG FOR RECORD	490(D)
...	
CHECKSUM (CRC)	488(6)

0970301-060101

FIG. 35



09870801-060101

FIG. 36

FIG. 36

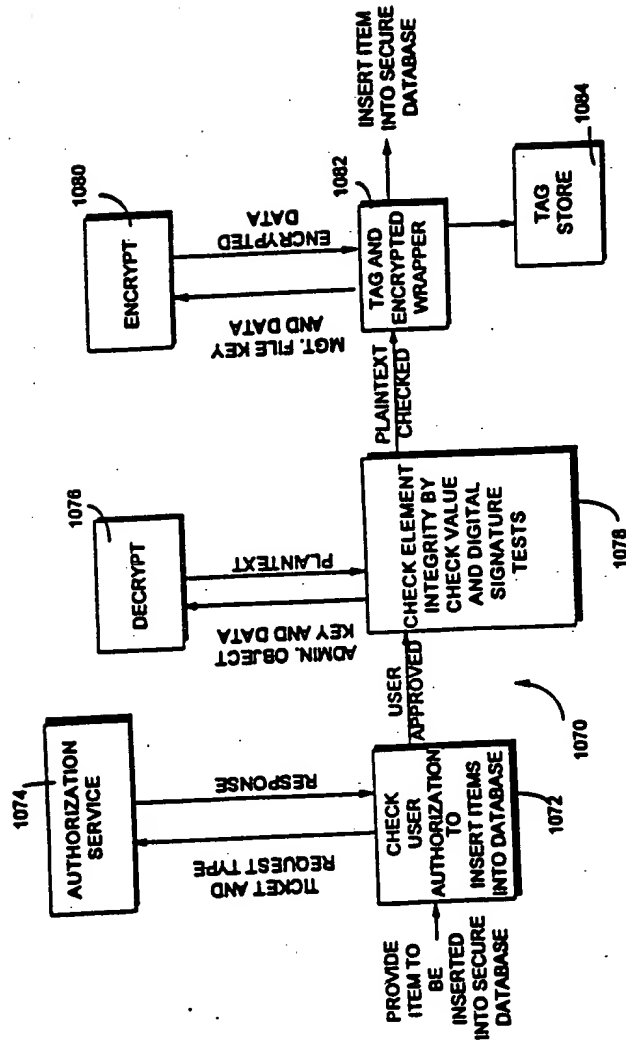


FIG. 37

FIG. 37

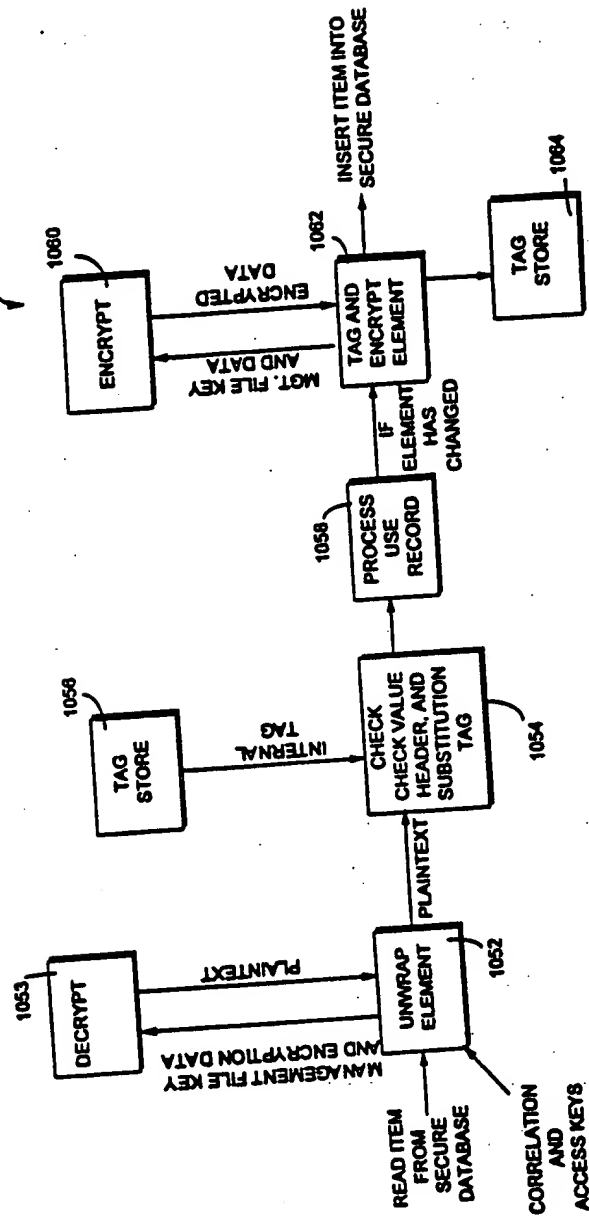


FIG. 38

09870801-060101

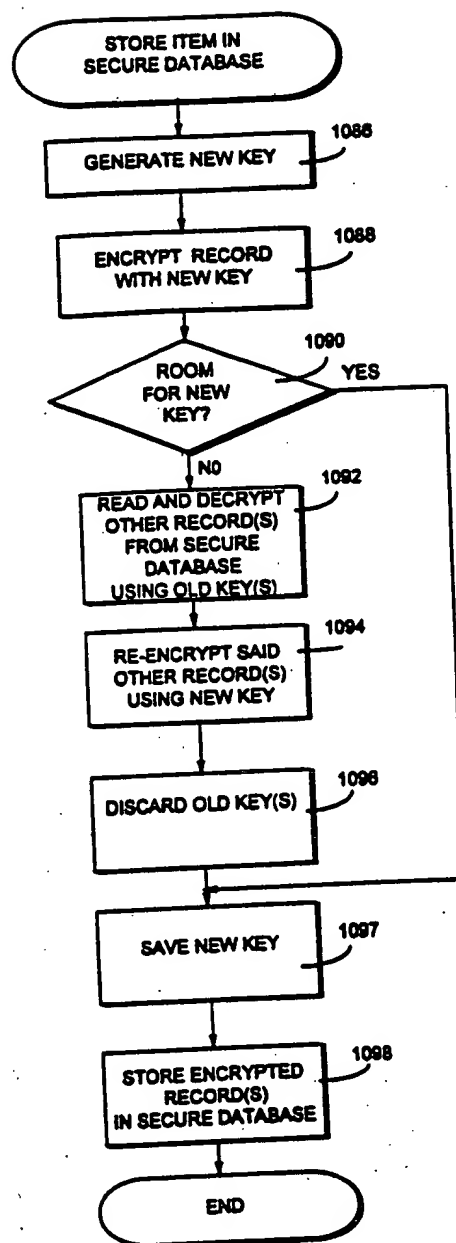
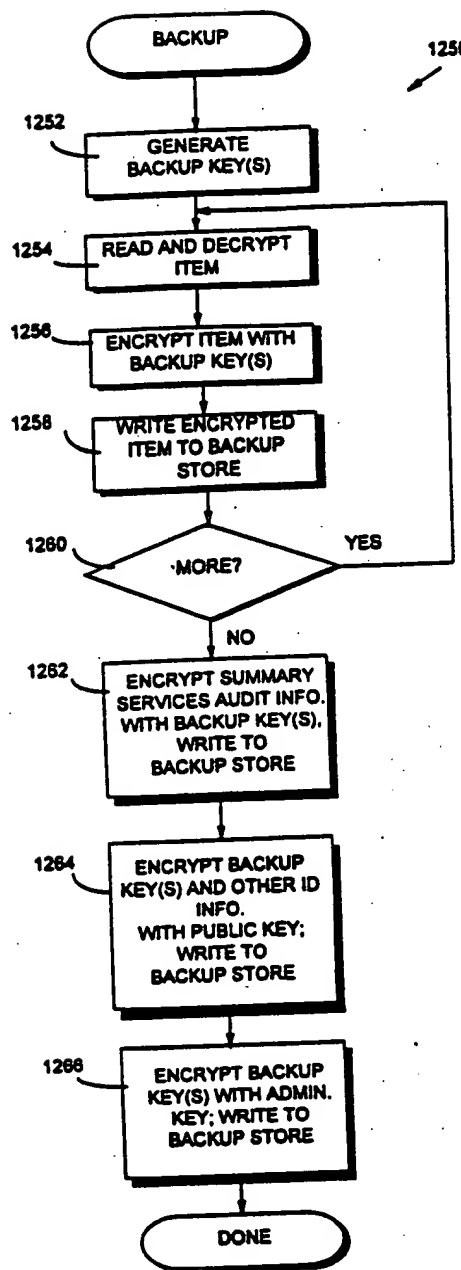




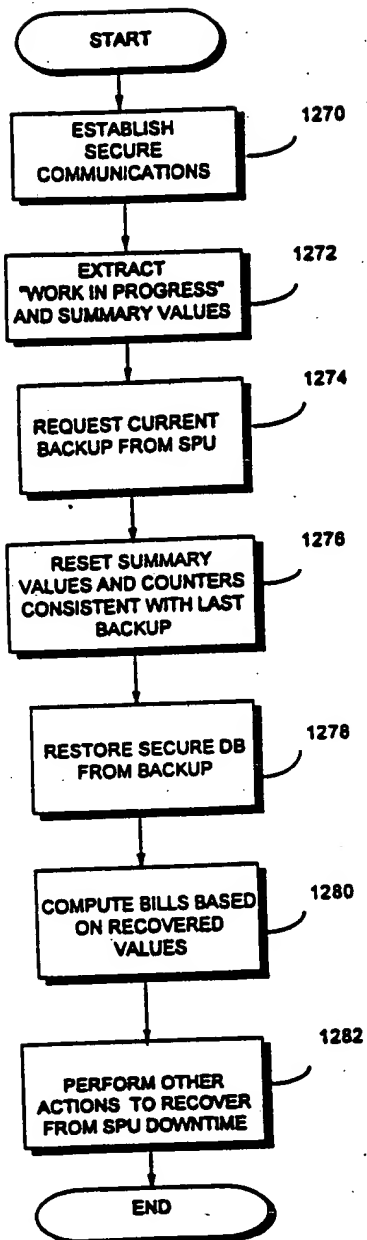
FIG. 39  
BACKUP



0870801.060101

**FIG. 40**  
RECOVER SECURE DATABASE

1268



09870801.060101

09870801-060101

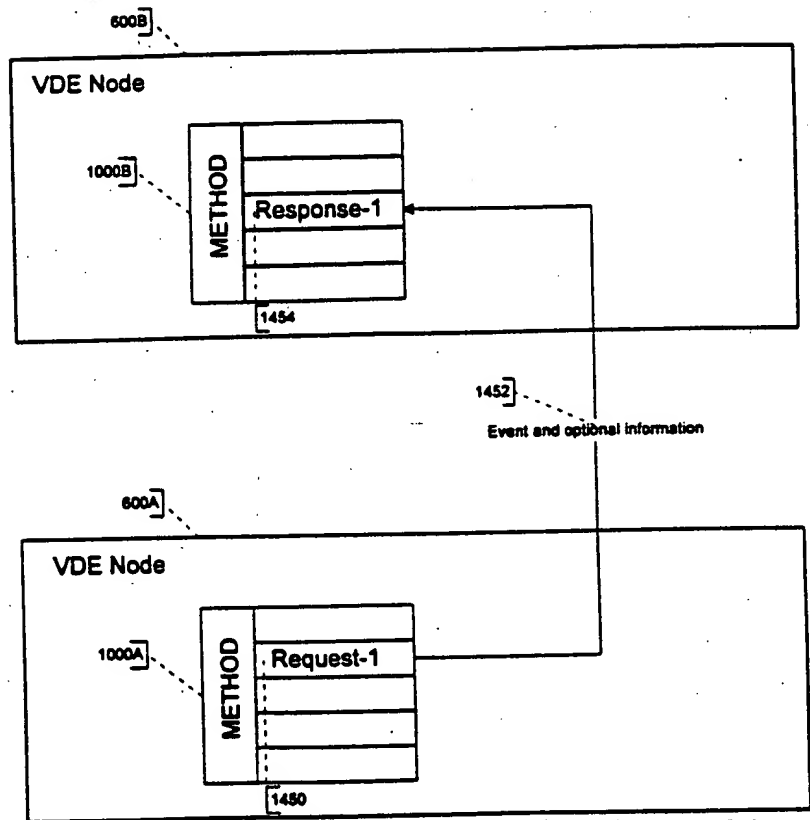


Figure 41a

09870801.060101

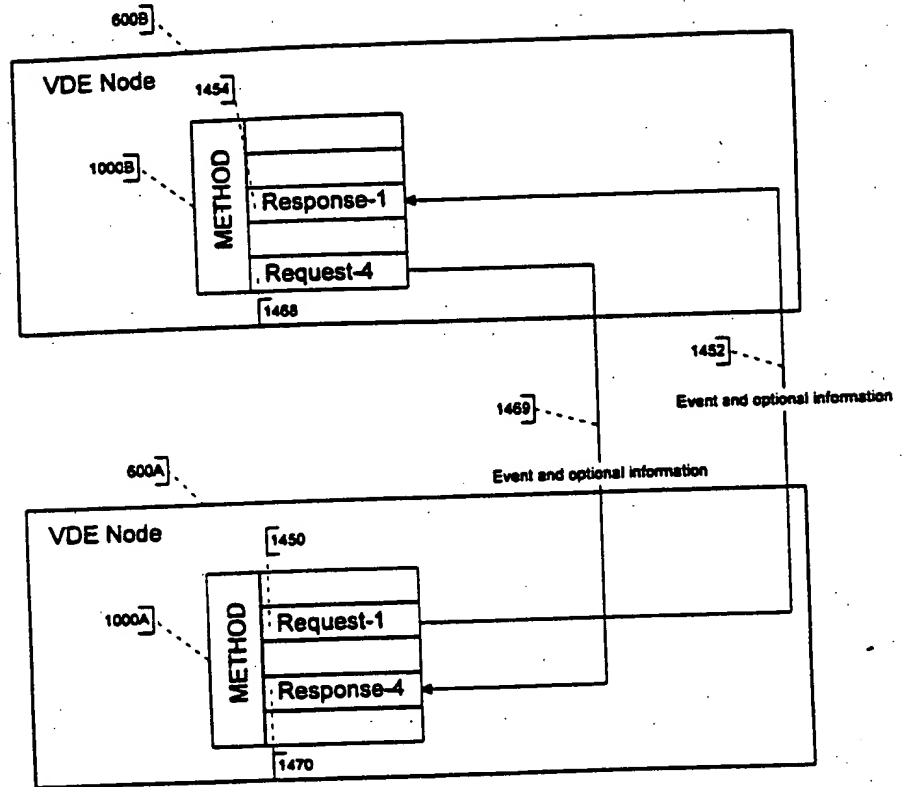


Figure 41b

09870801-060101

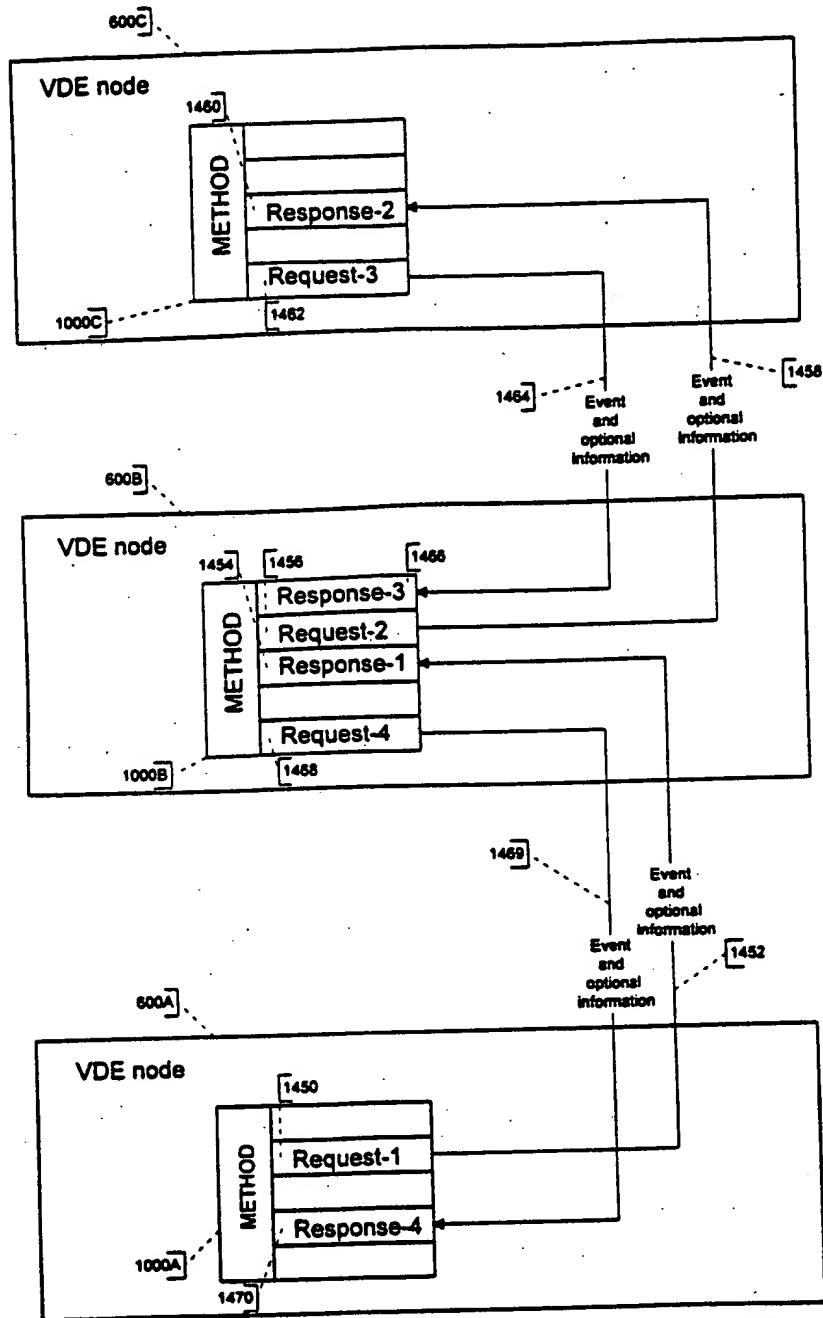


Figure 41c

09870801-090100

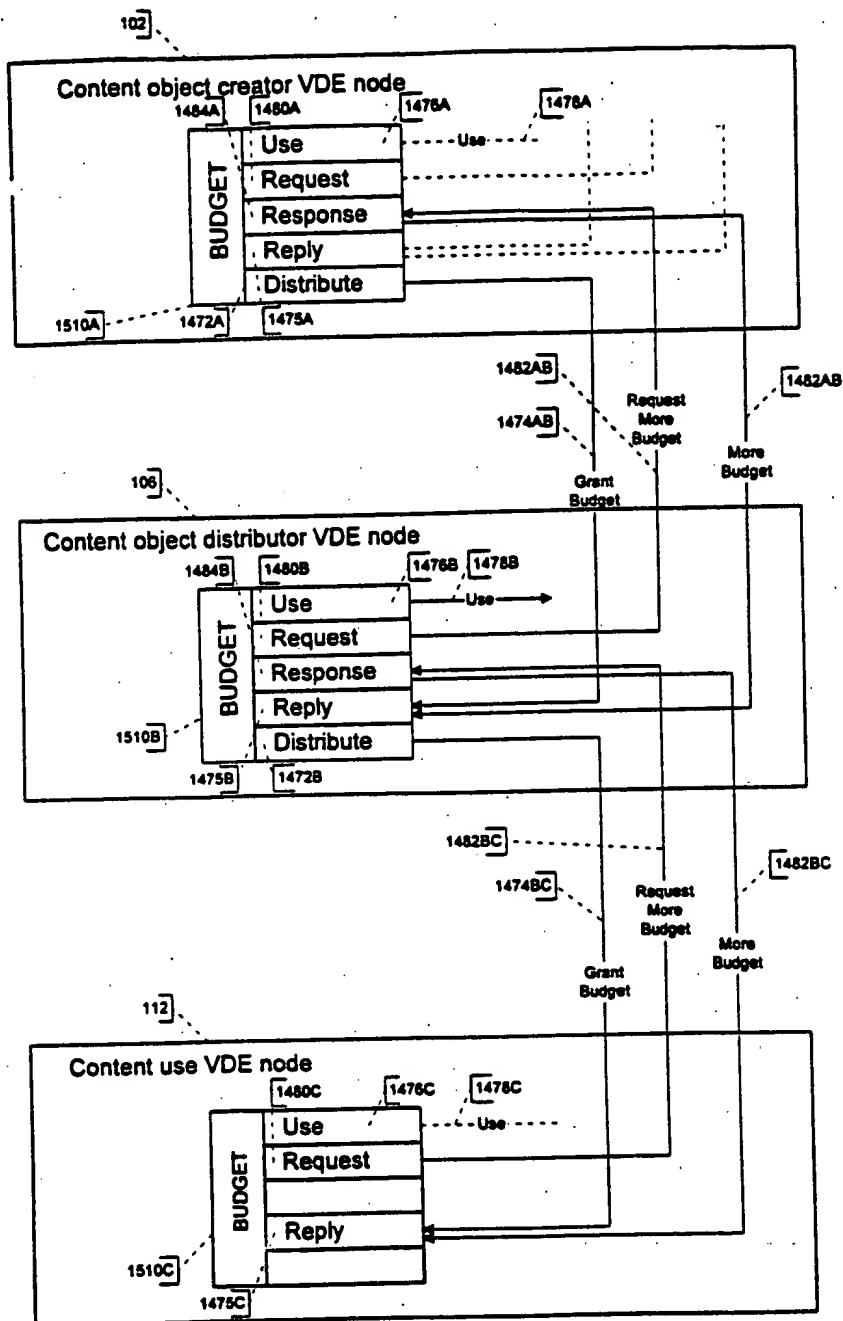


Figure 41d

2250

# BUDGET Method Use Process Flow

09870801-060101

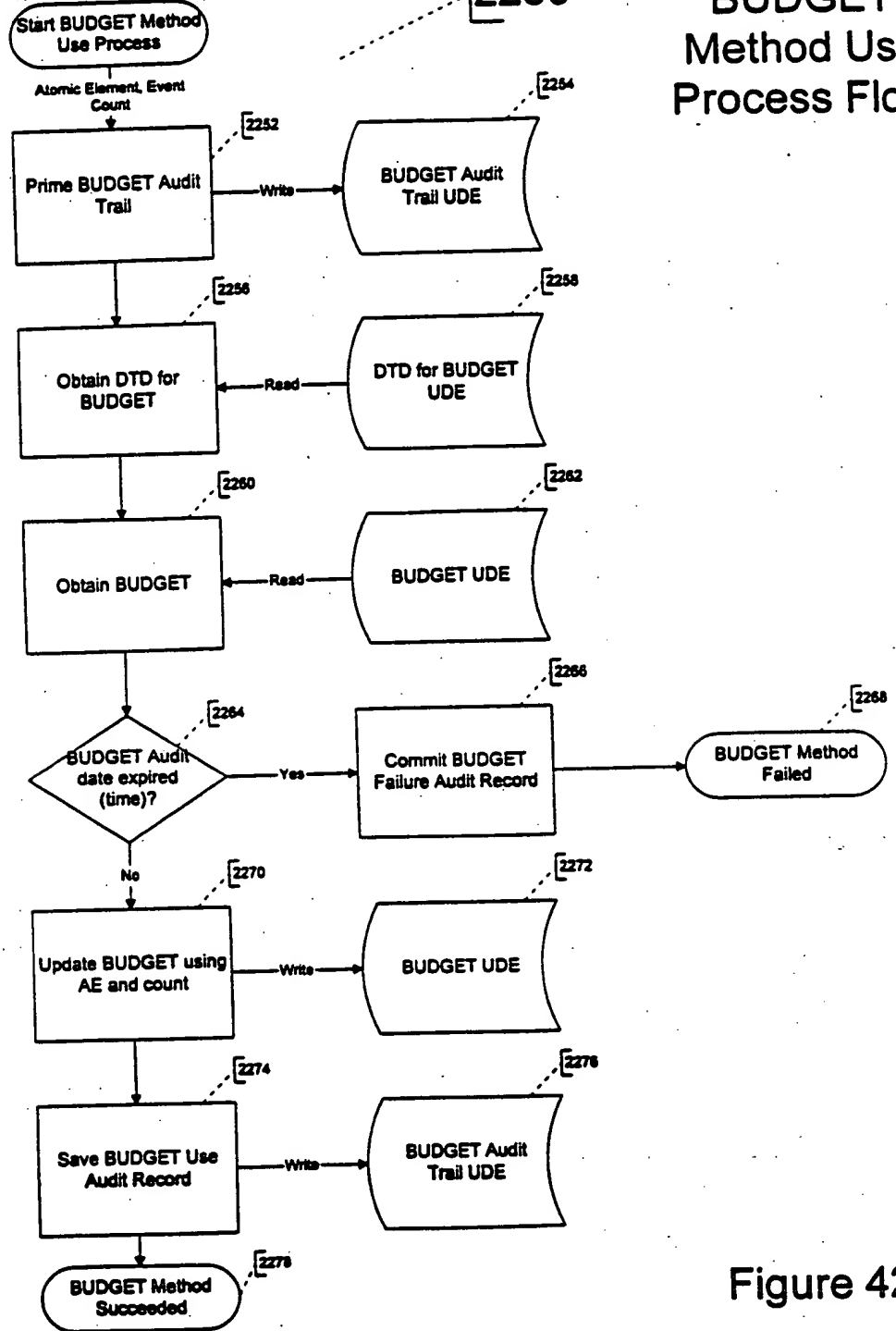


Figure 42a

2250

# BUDGET Method Administrative Request Process Flow

09870801-060101

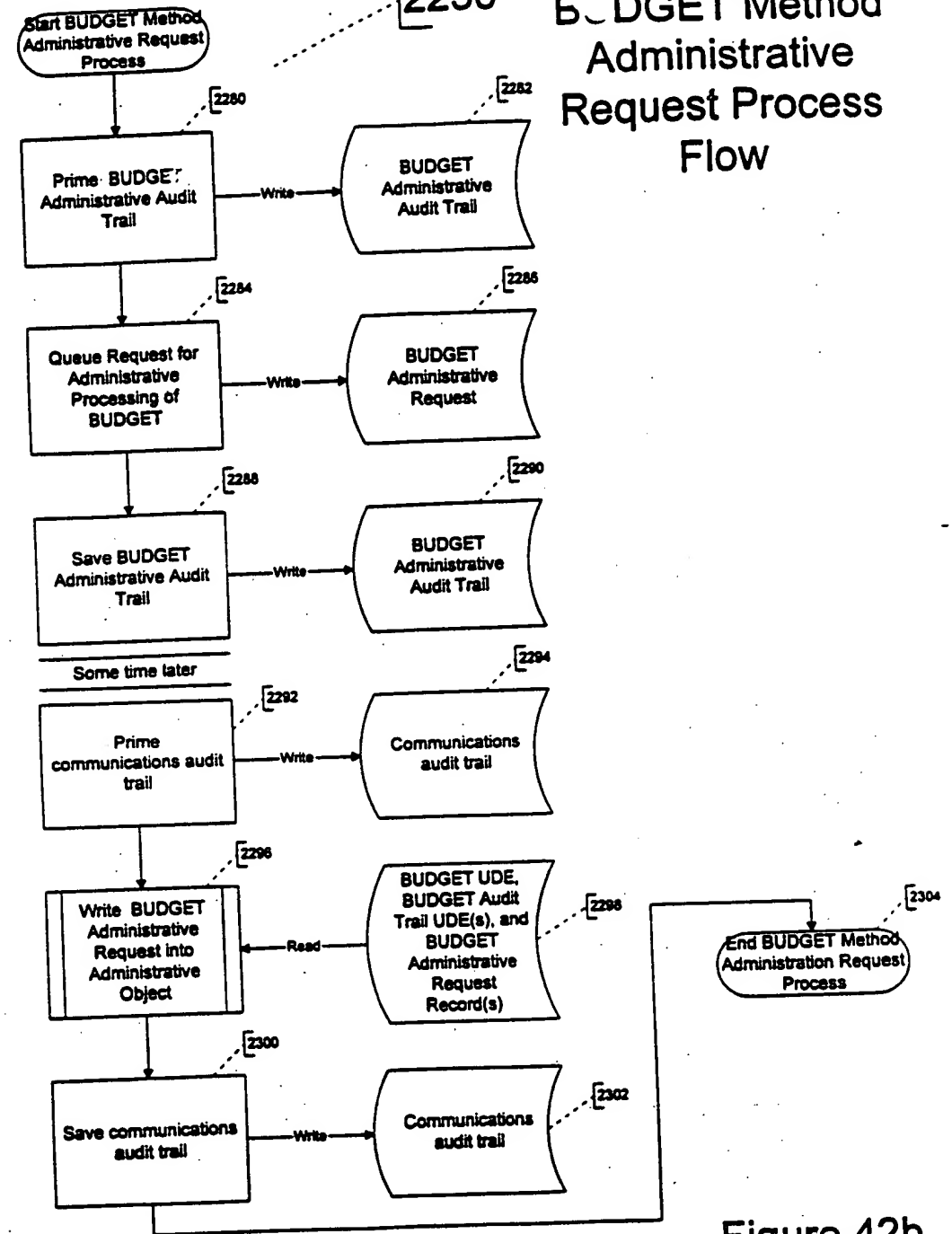


Figure 42b



# BUDGET Method Administrative Response Process Flow

109870801-050101

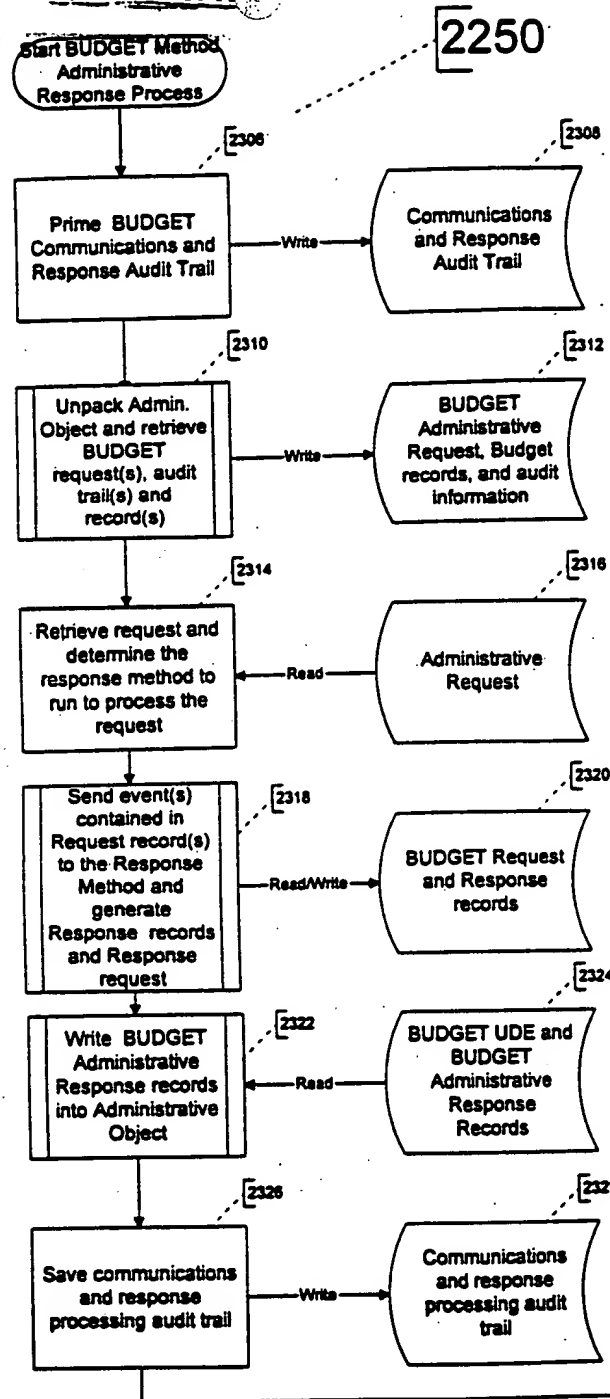


Figure 42c

09370801.060101

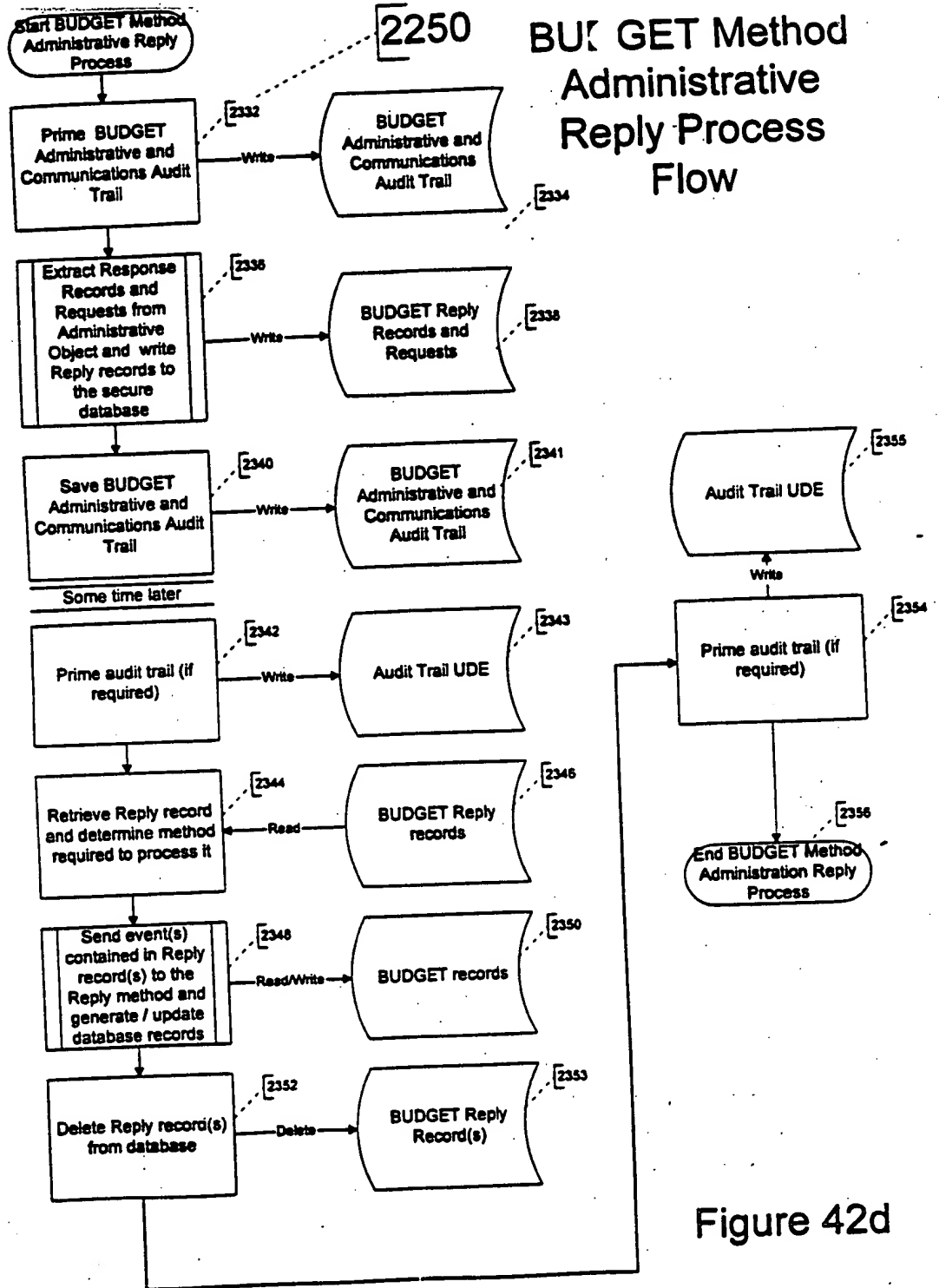


Figure 42d

# REGISTER Method Use Process Flow

09870801-050101

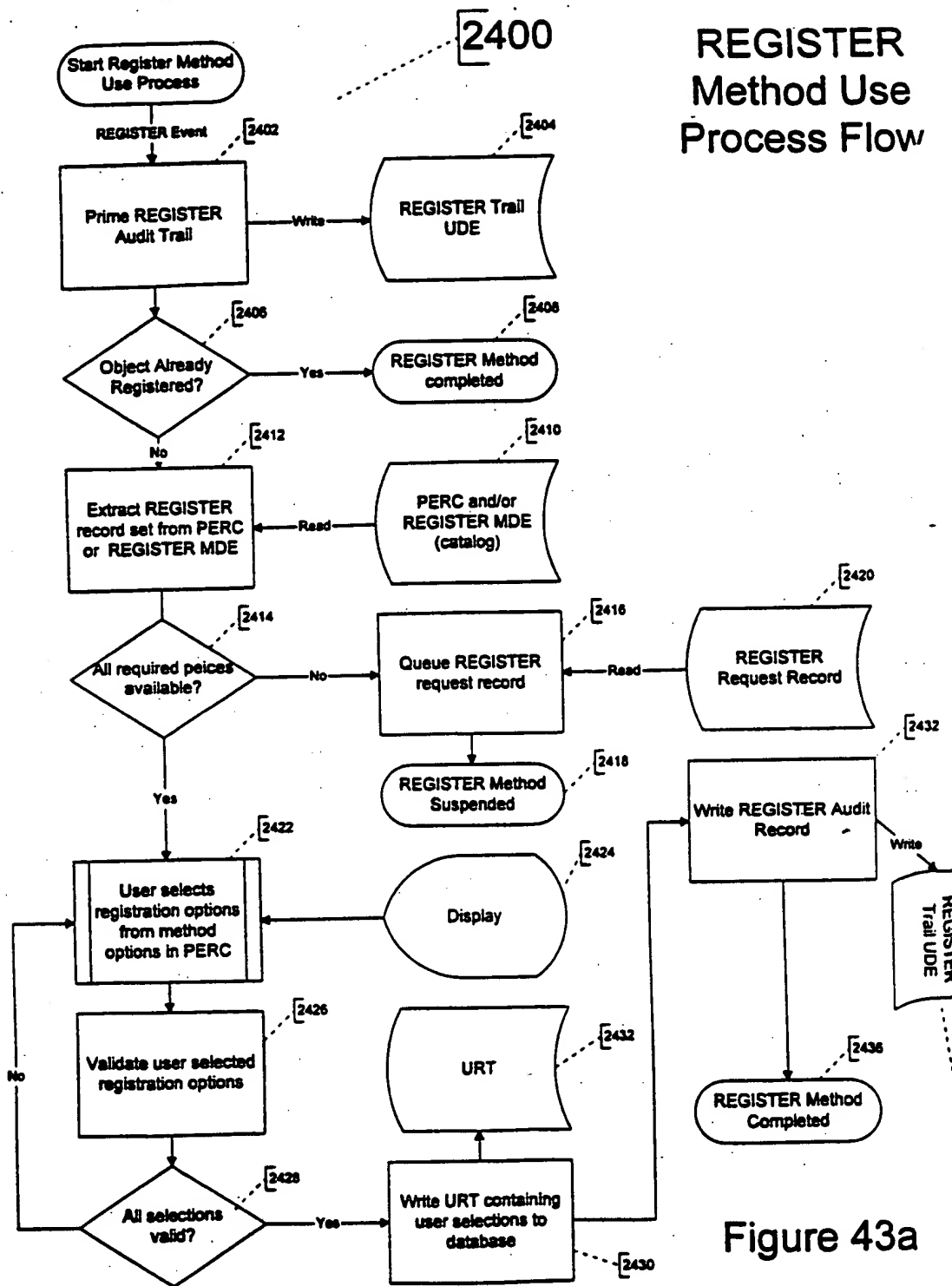


Figure 43a

# REGISTER Method Administrative Request Process Flow

09870801.050101

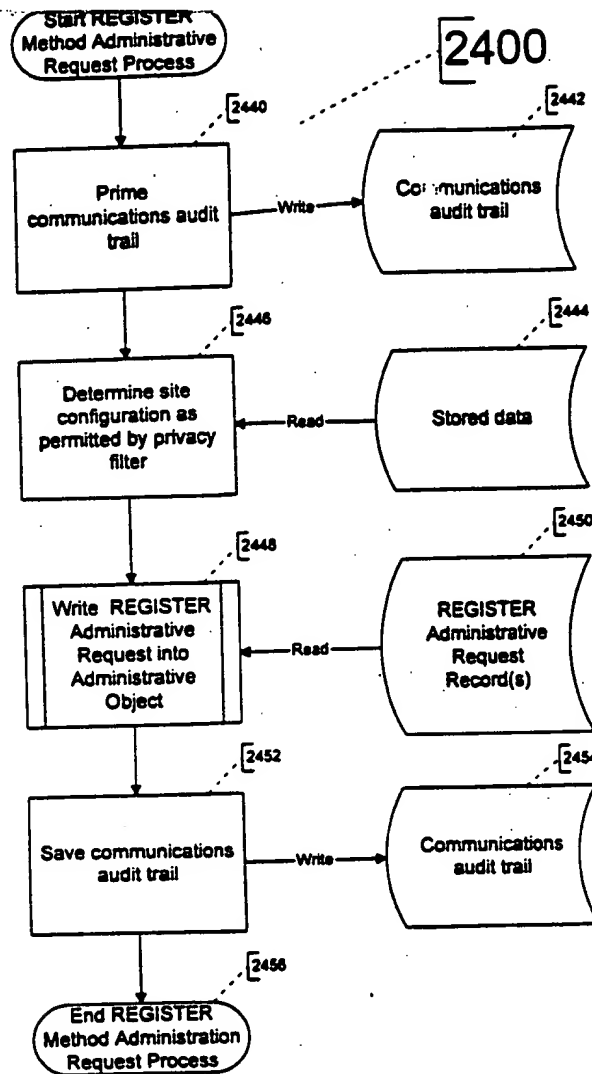


Figure 43b

# REGISTER Method Administrative Response Process Flow

09870801 10802860

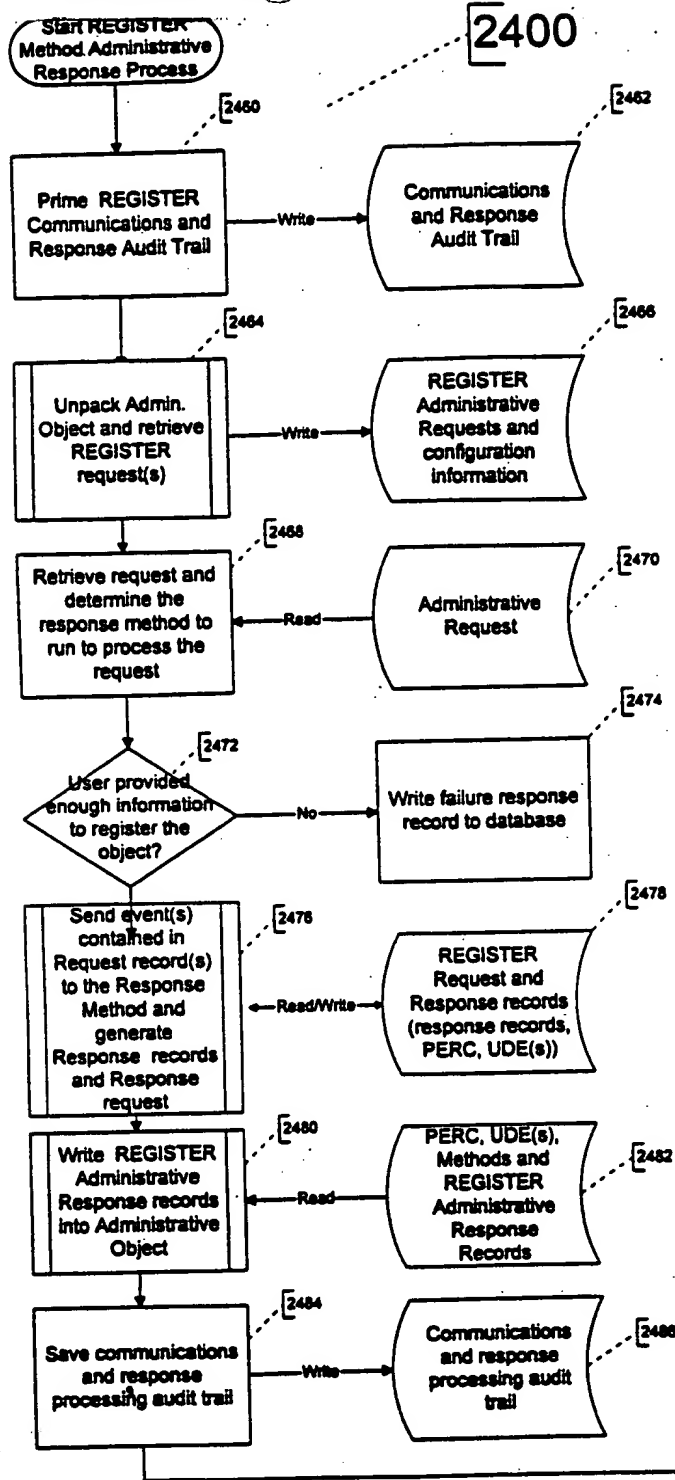


Figure 43c

2520

# AUDIT Method Administrative Request Process Flow

101090-10807860

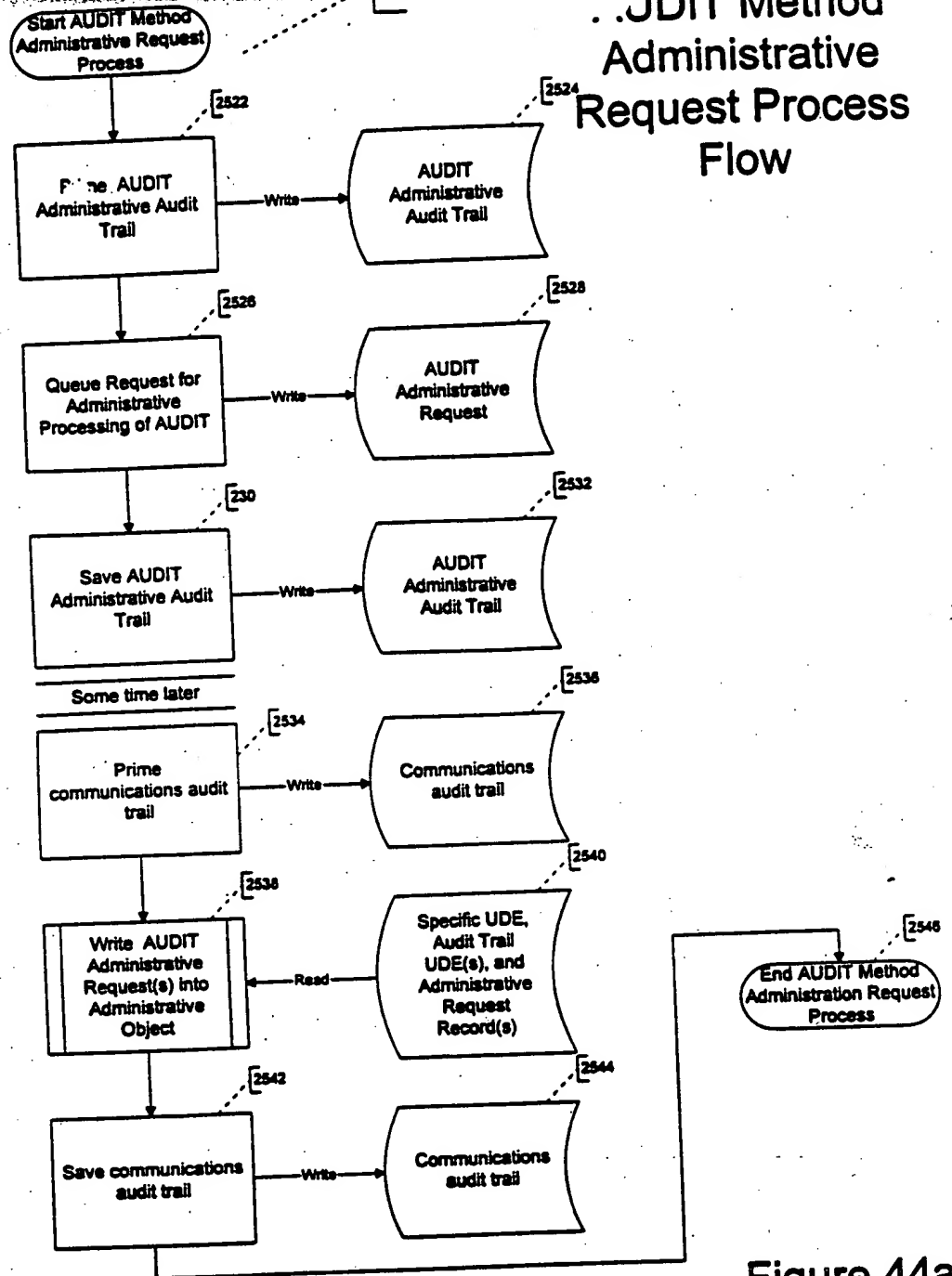


Figure 44a

# AUDIT Method Administrative Response Process Flow

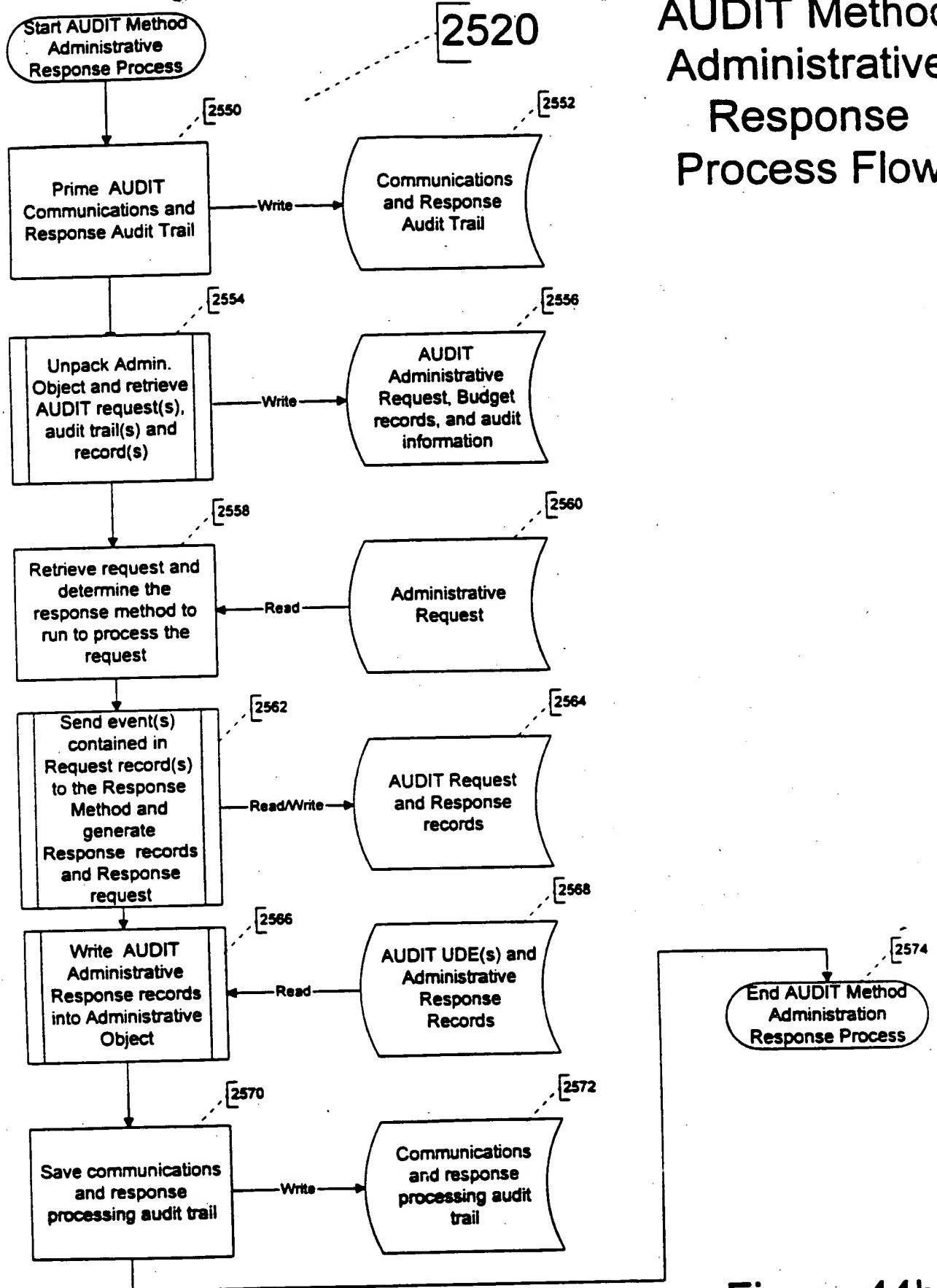


Figure 44b

# AUDIT Method Administrative Reply Process Flow

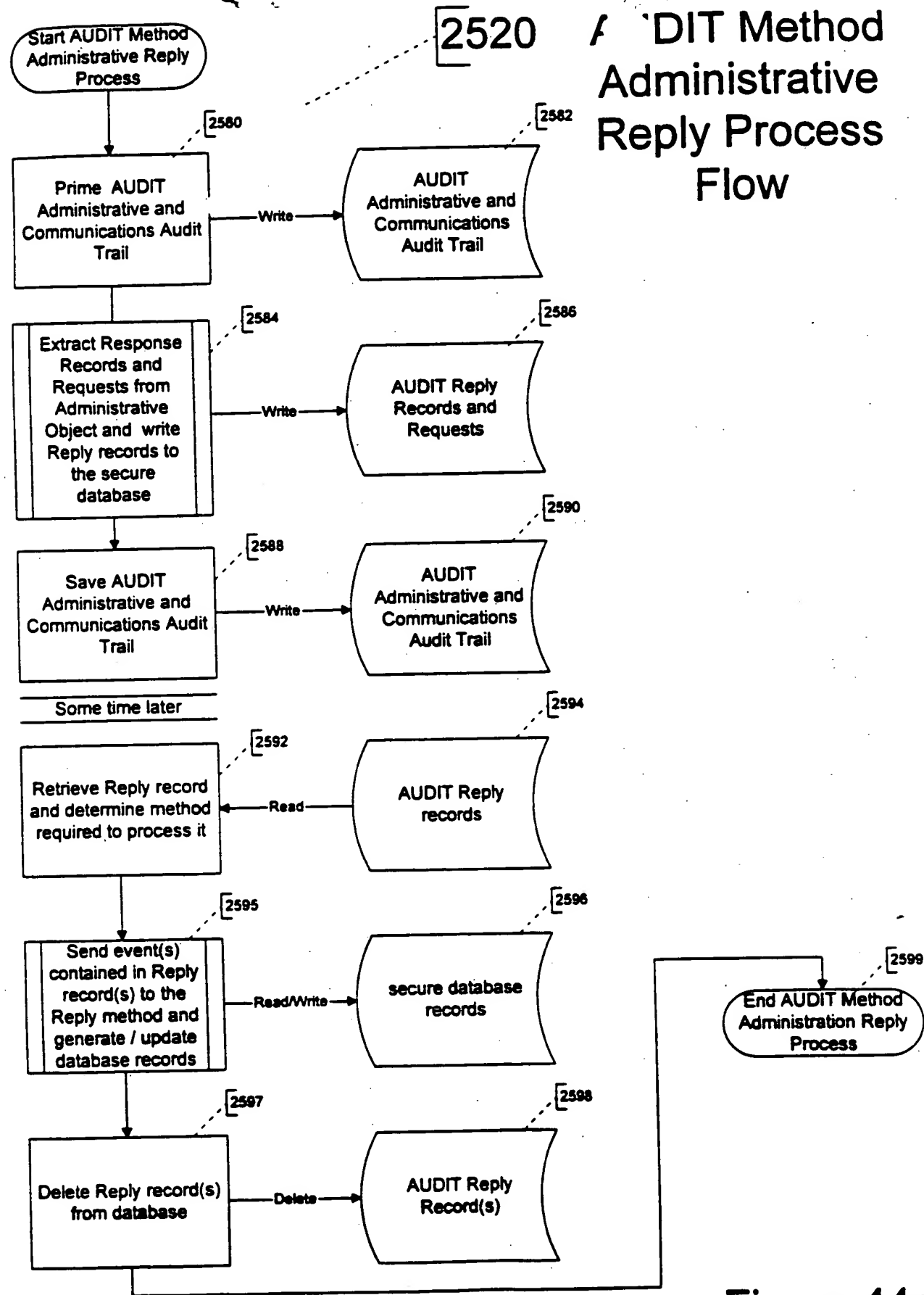


Figure 44c

09870801-050404



FIG. 45

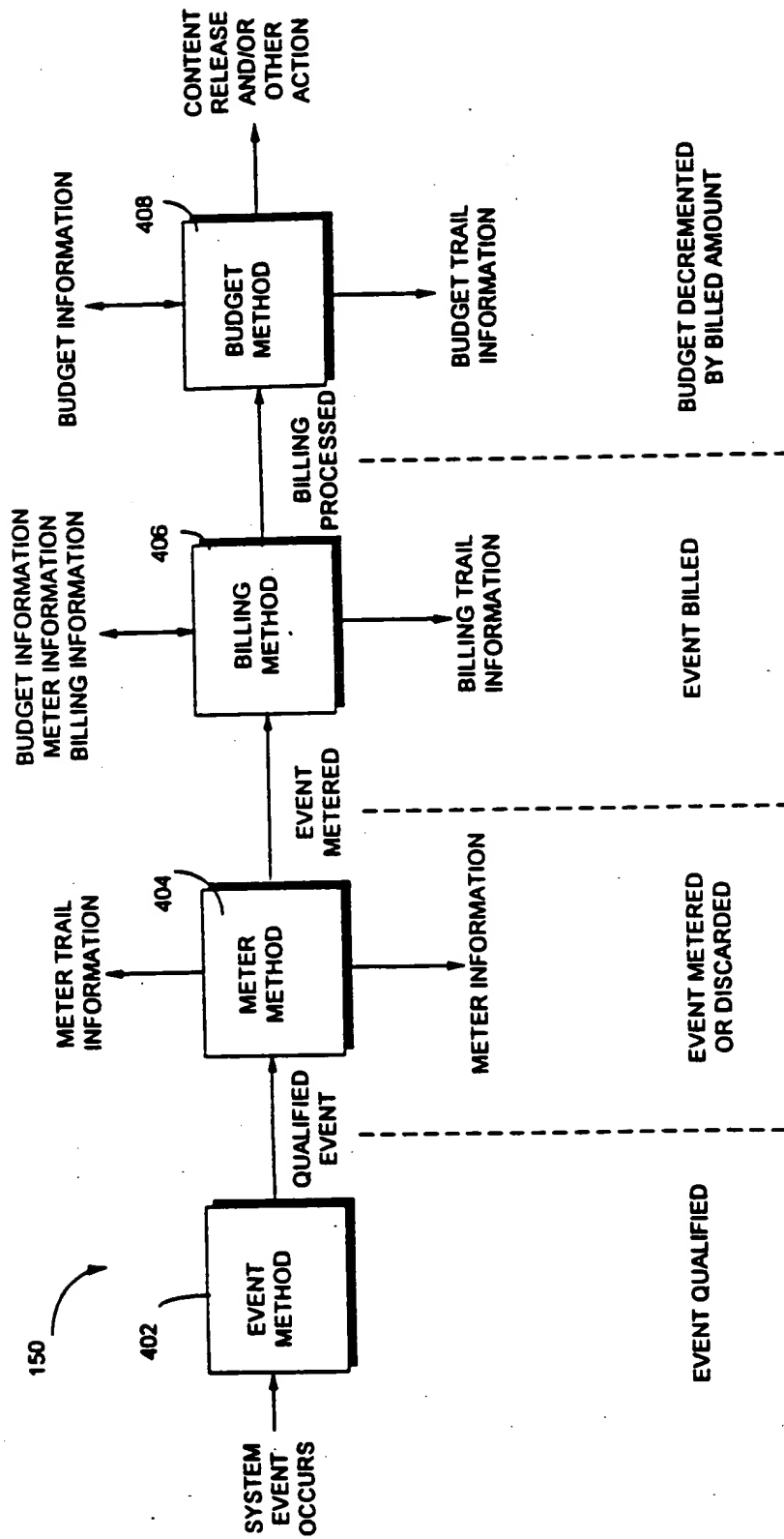
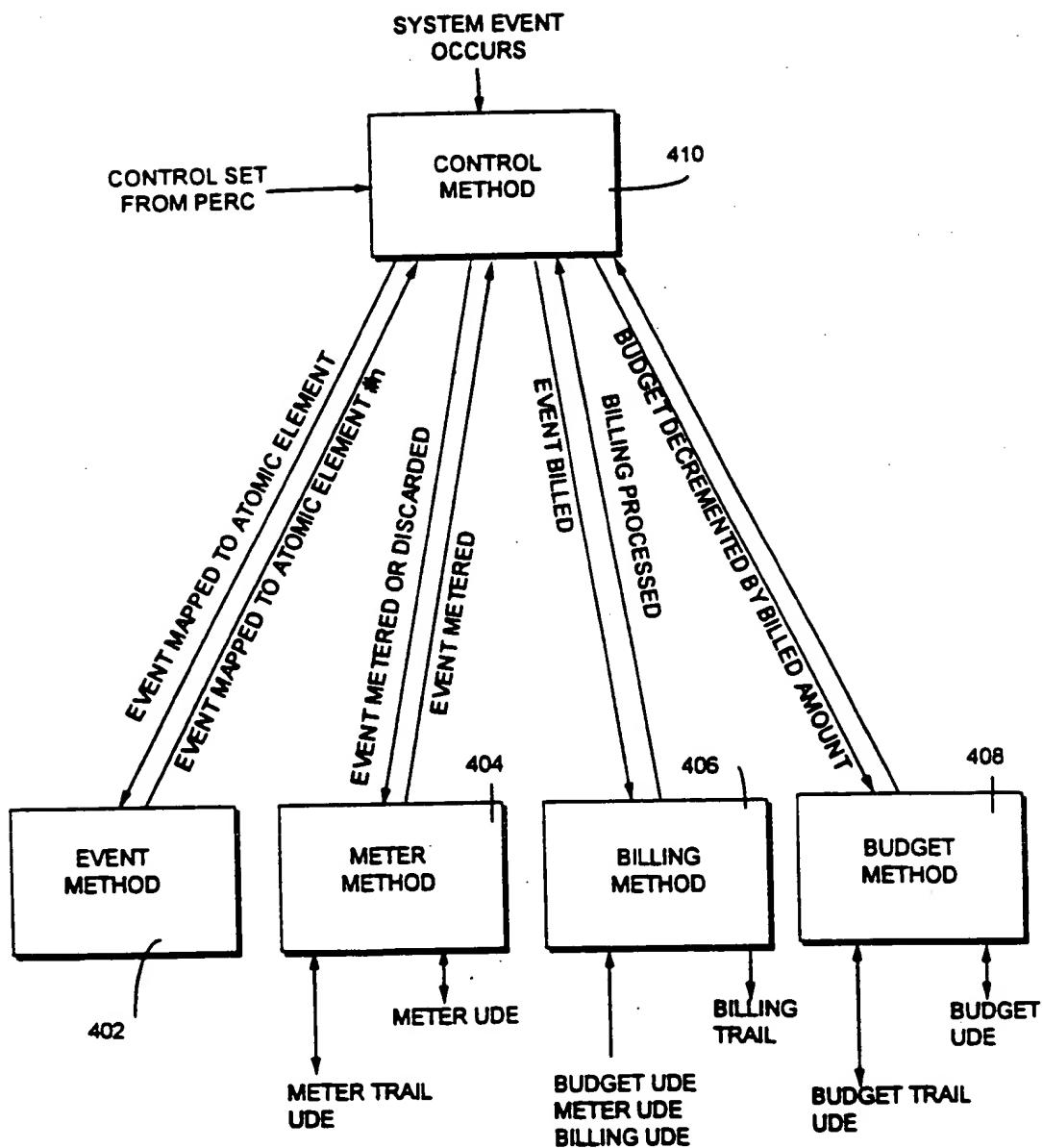


FIG. 46



09870801-060304





# OPEN Method Use Process Flow

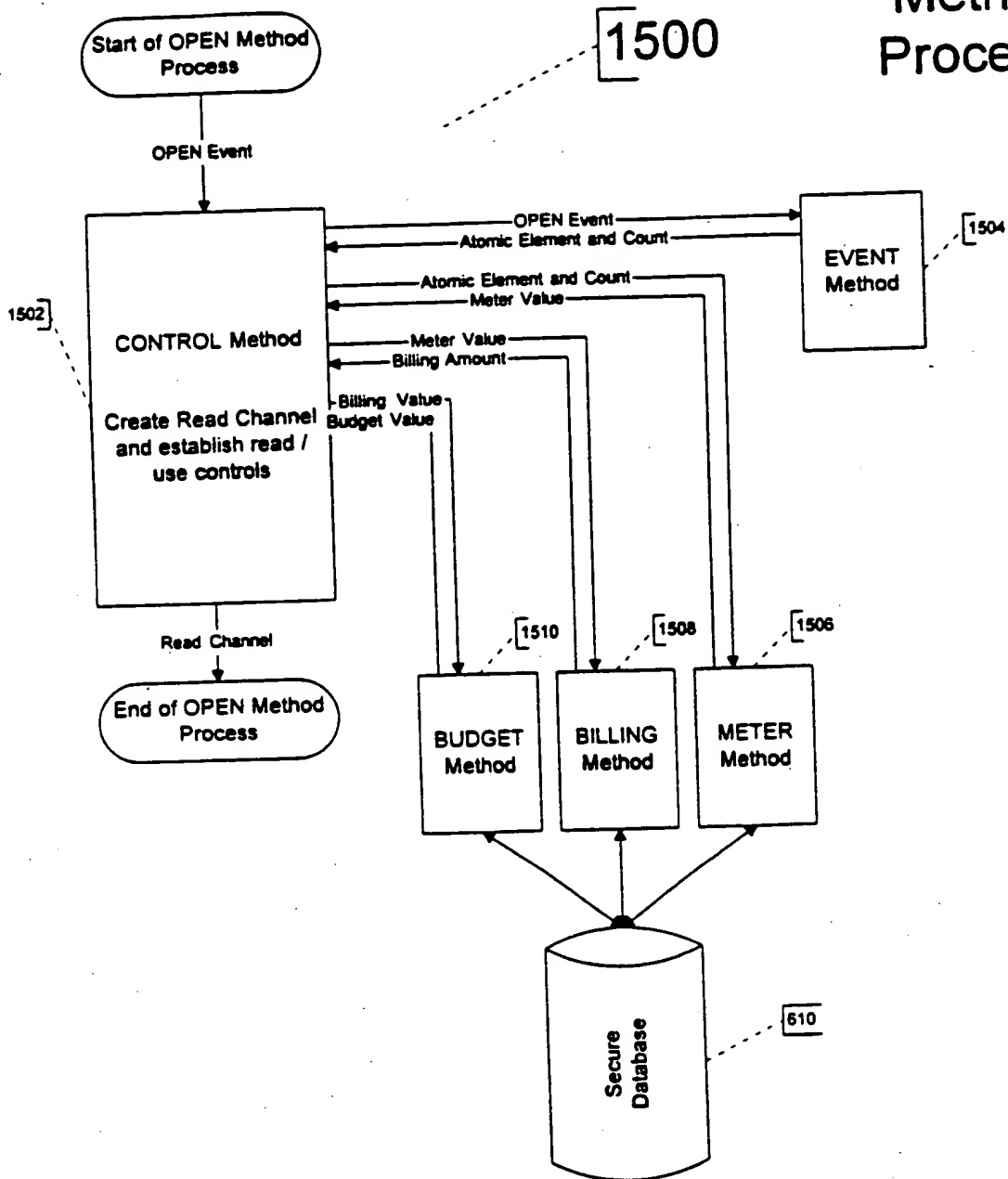


Figure 49

09270804-060301

1500

Start of OPEN Method  
Process

1502

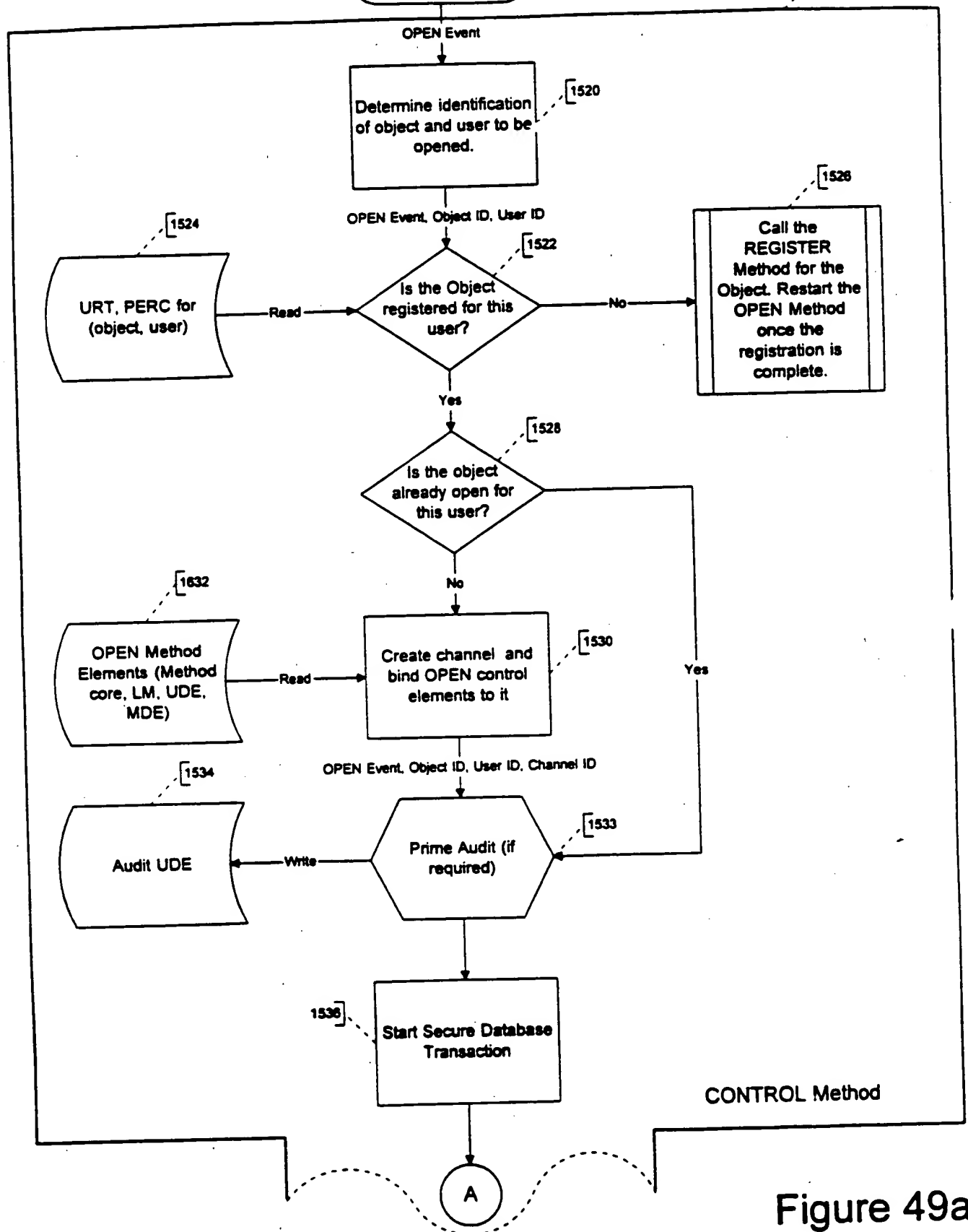


Figure 49a

09670804.060401

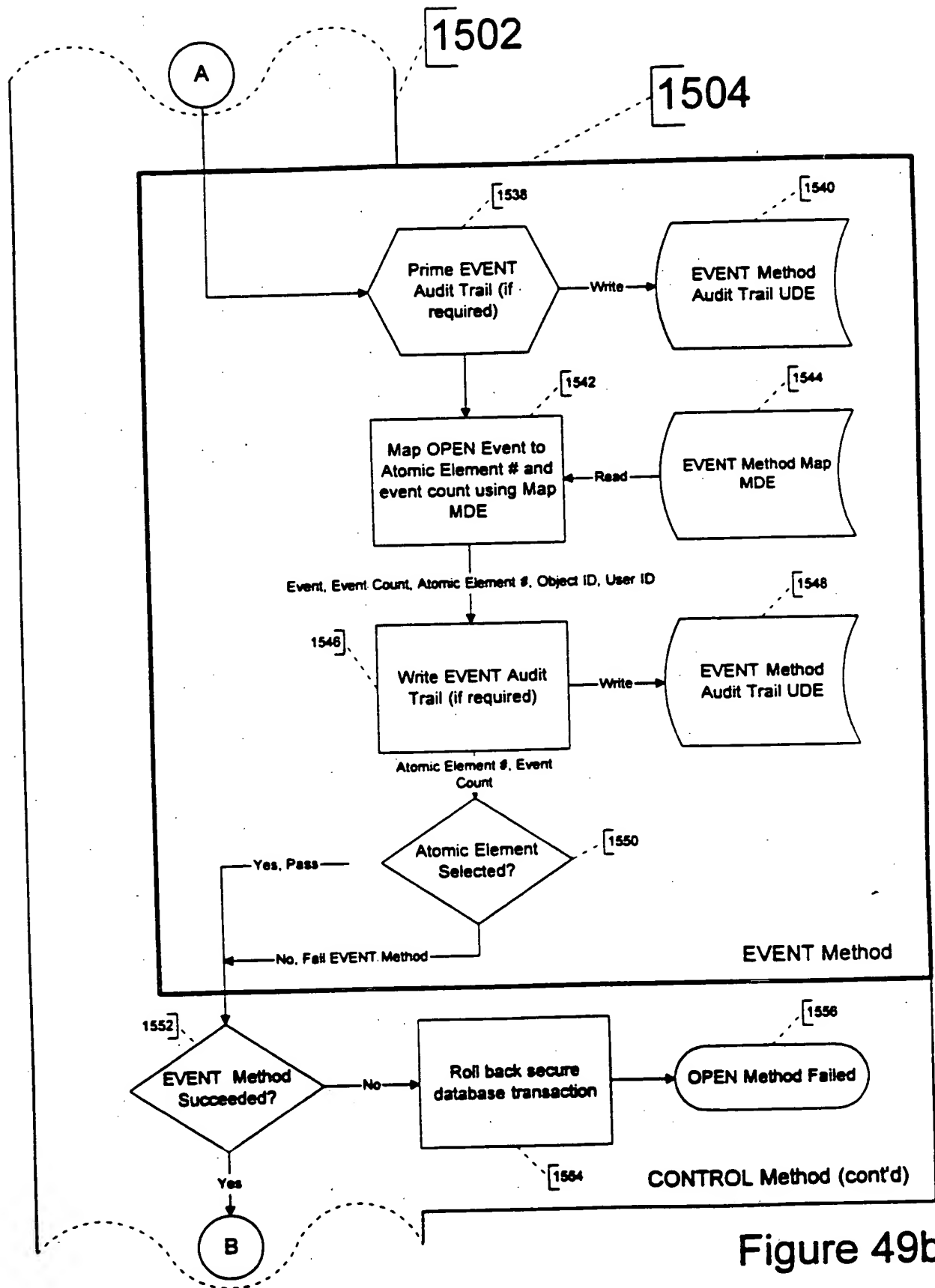


Figure 49b

060301-060301

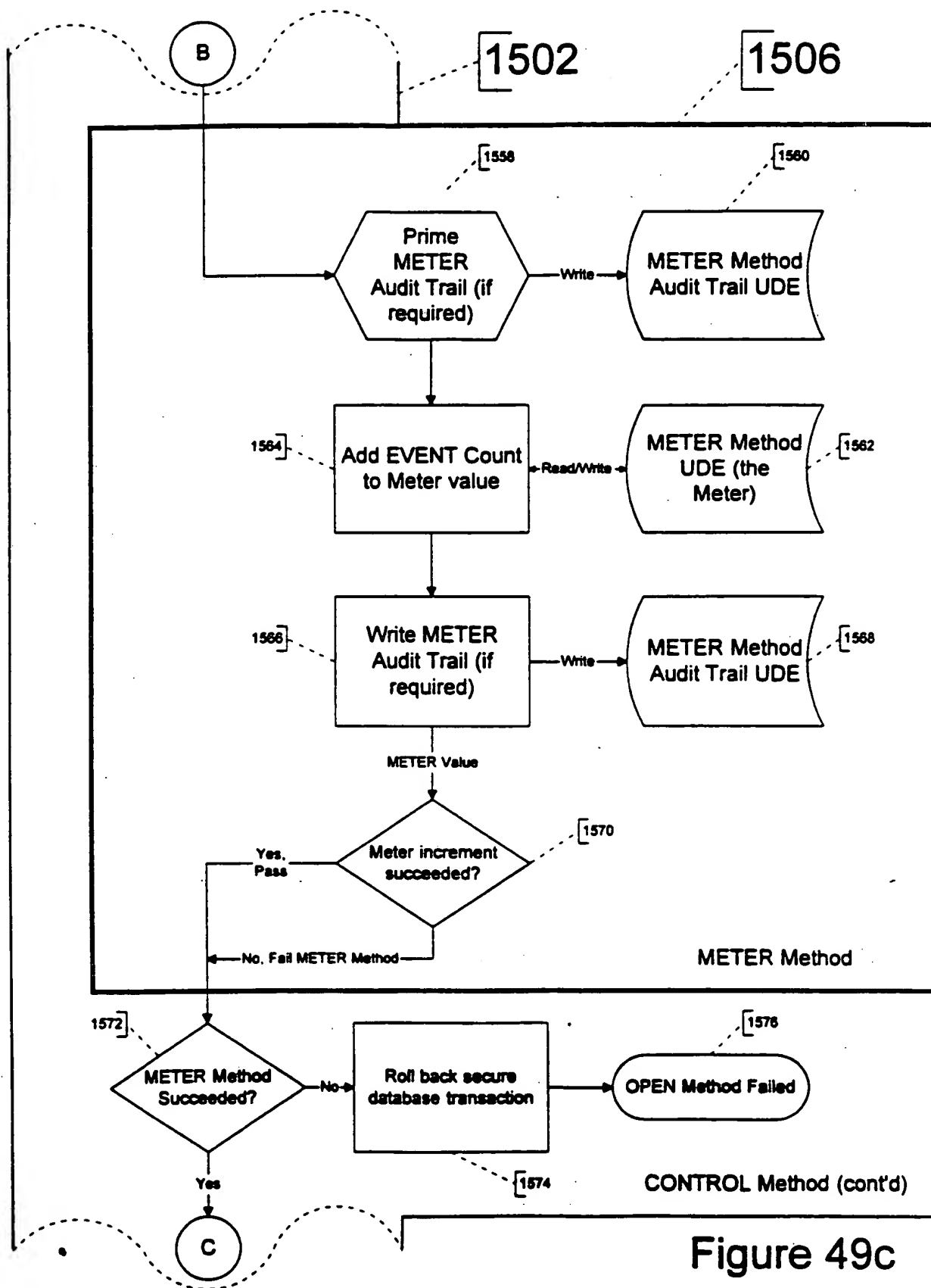
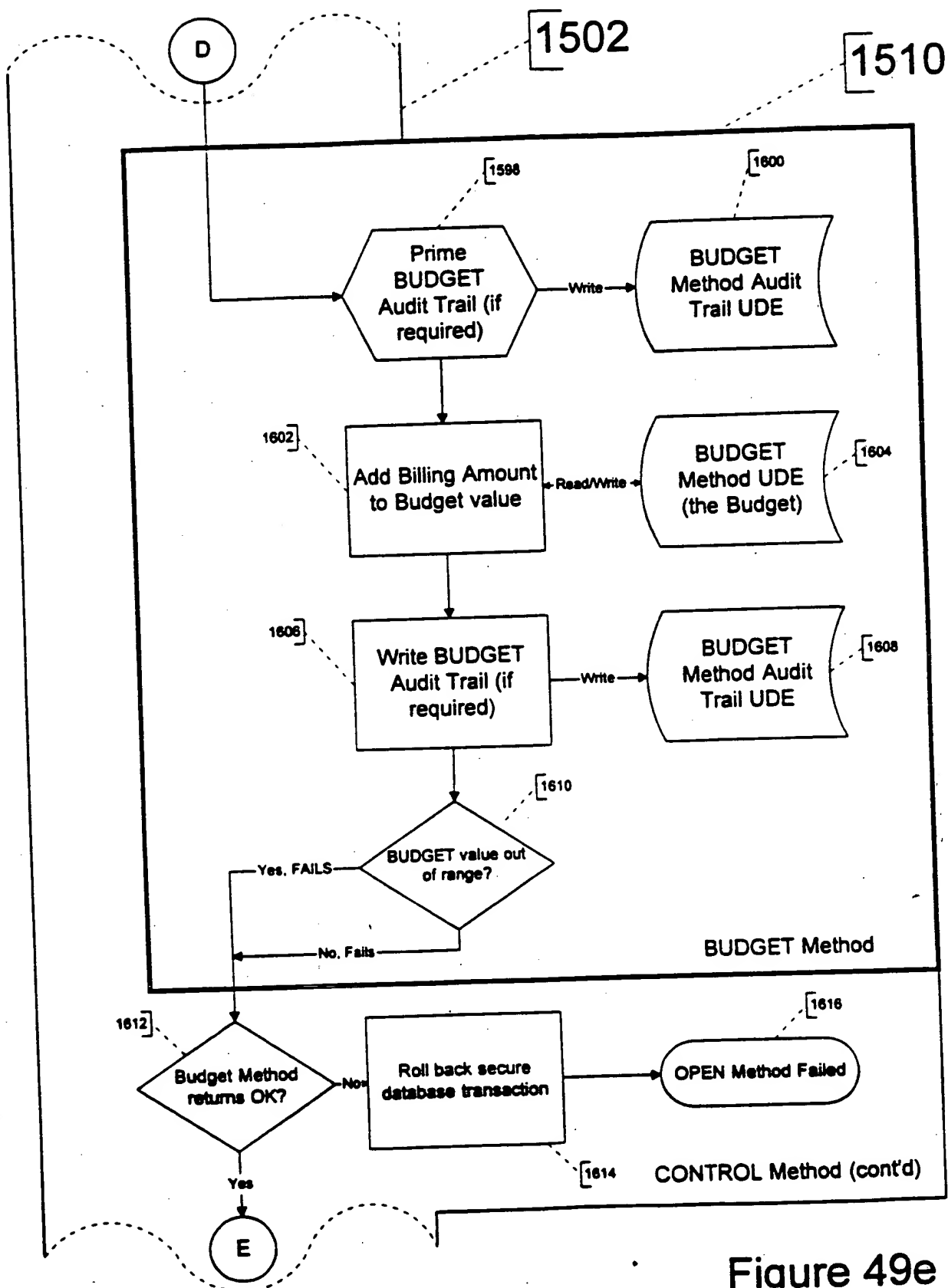


Figure 49c





**Figure 49e**

09870801-060401

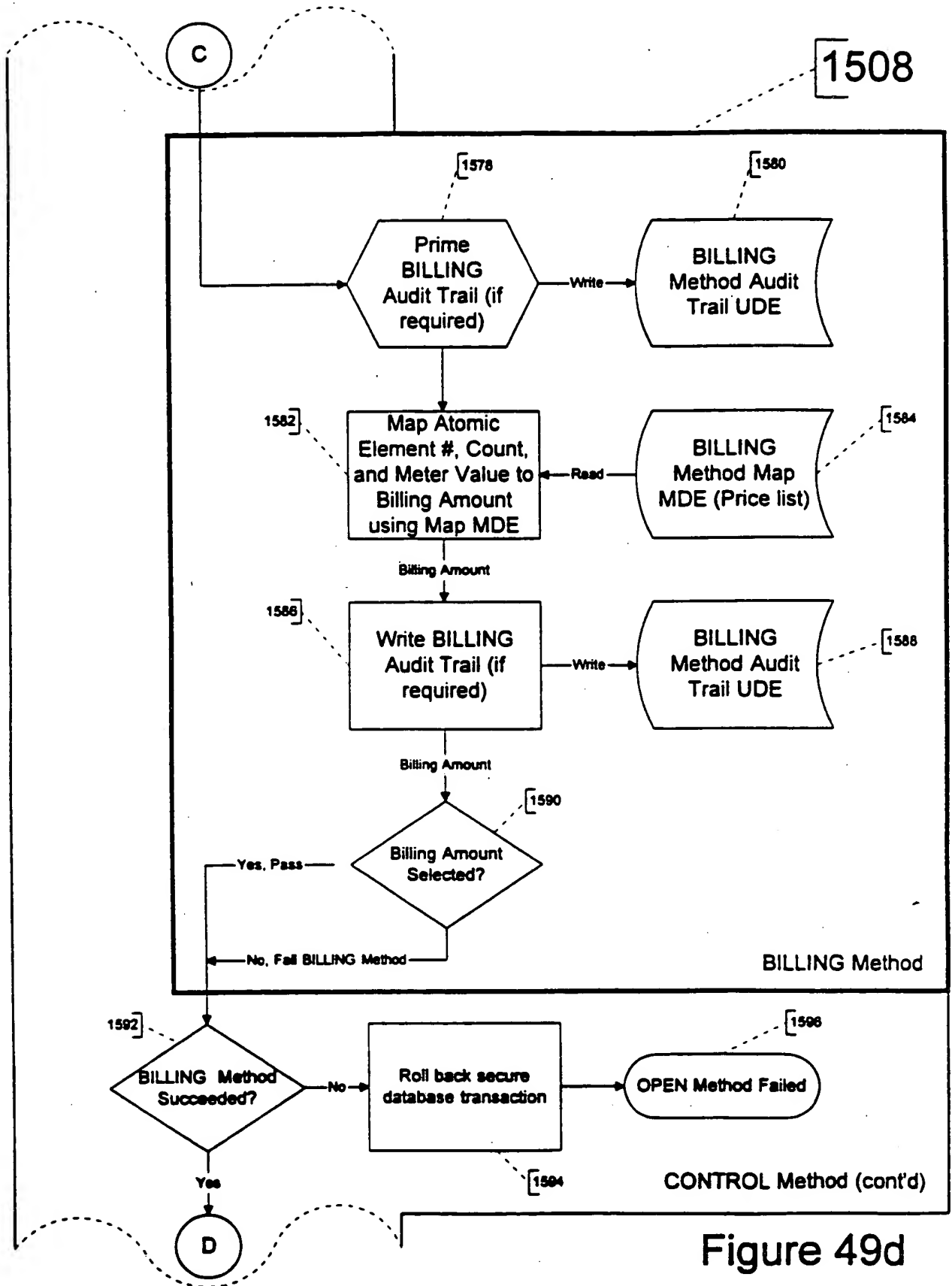


Figure 49d

09670801-060401

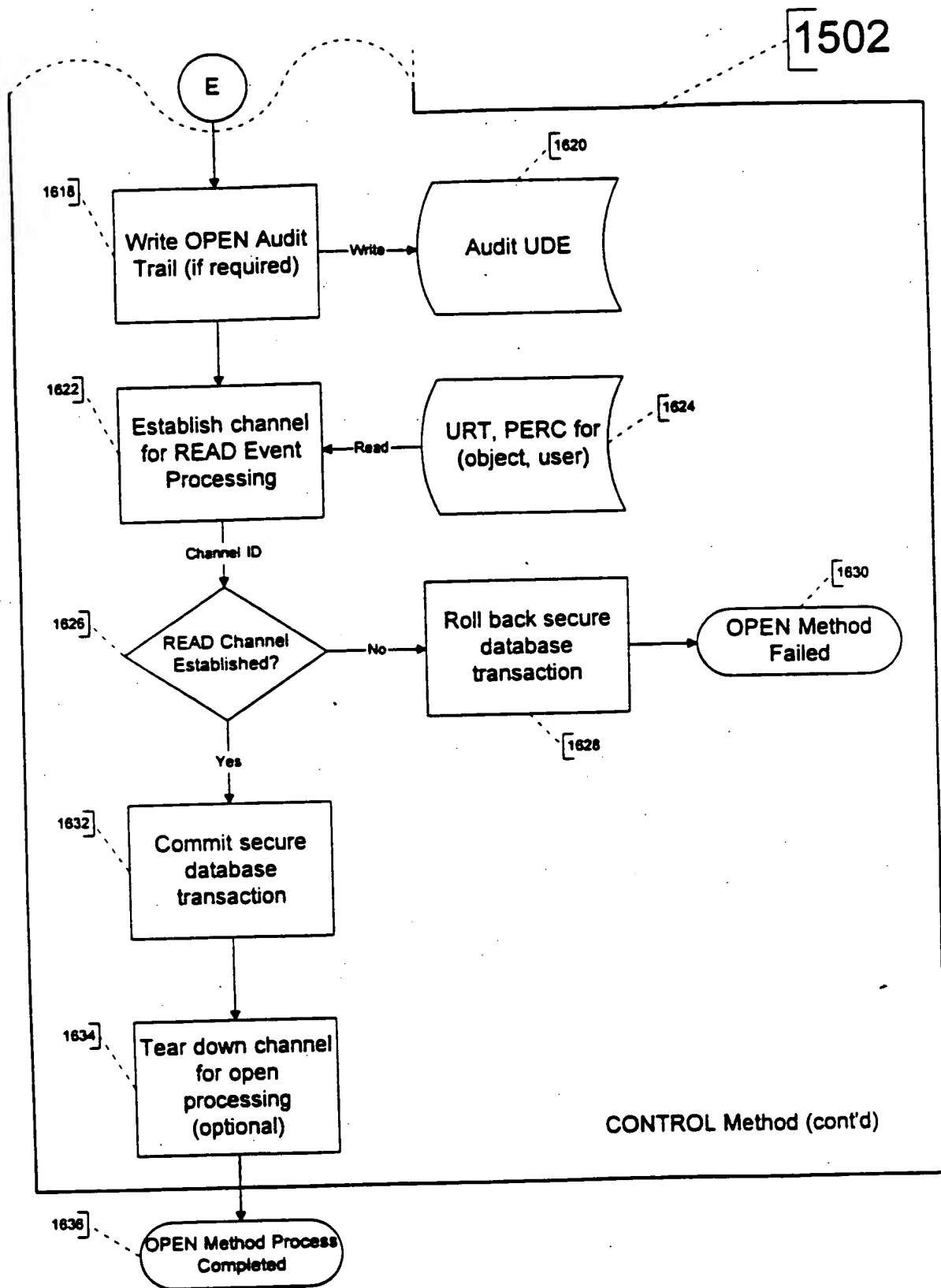


Figure 49f

# READ Method Use Process Flow

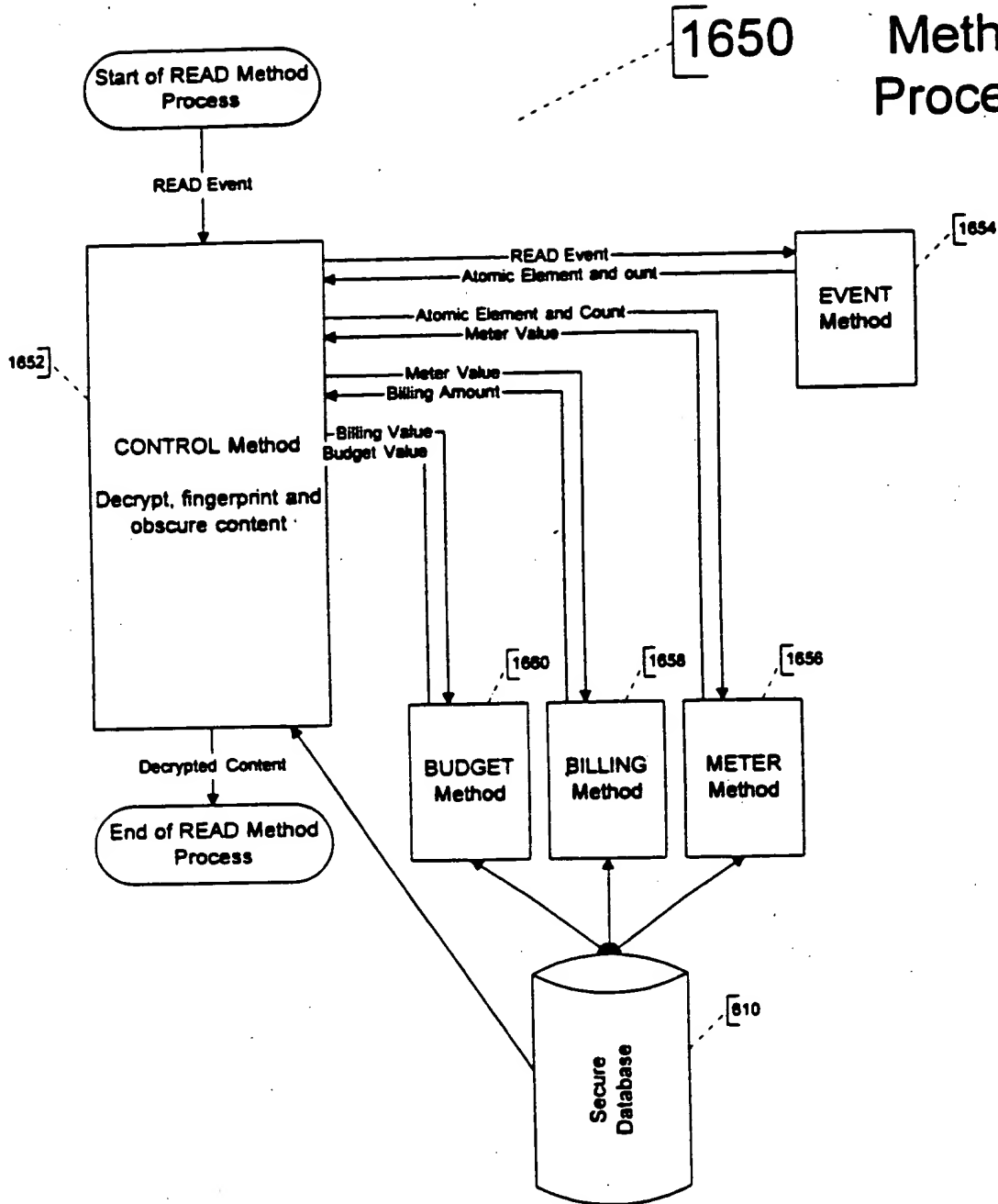


Figure 50

1650

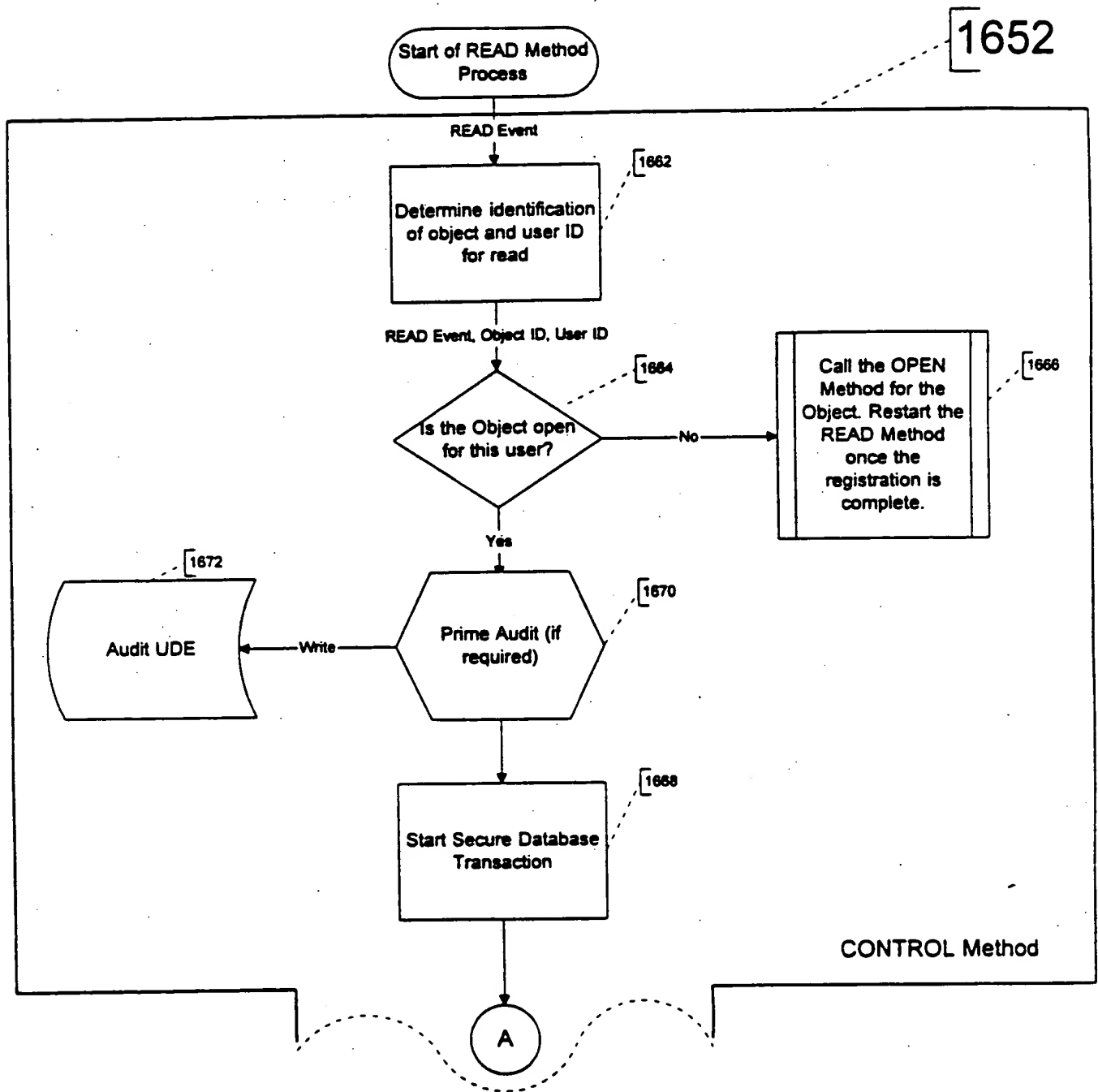


Figure 50a

09370304-060404

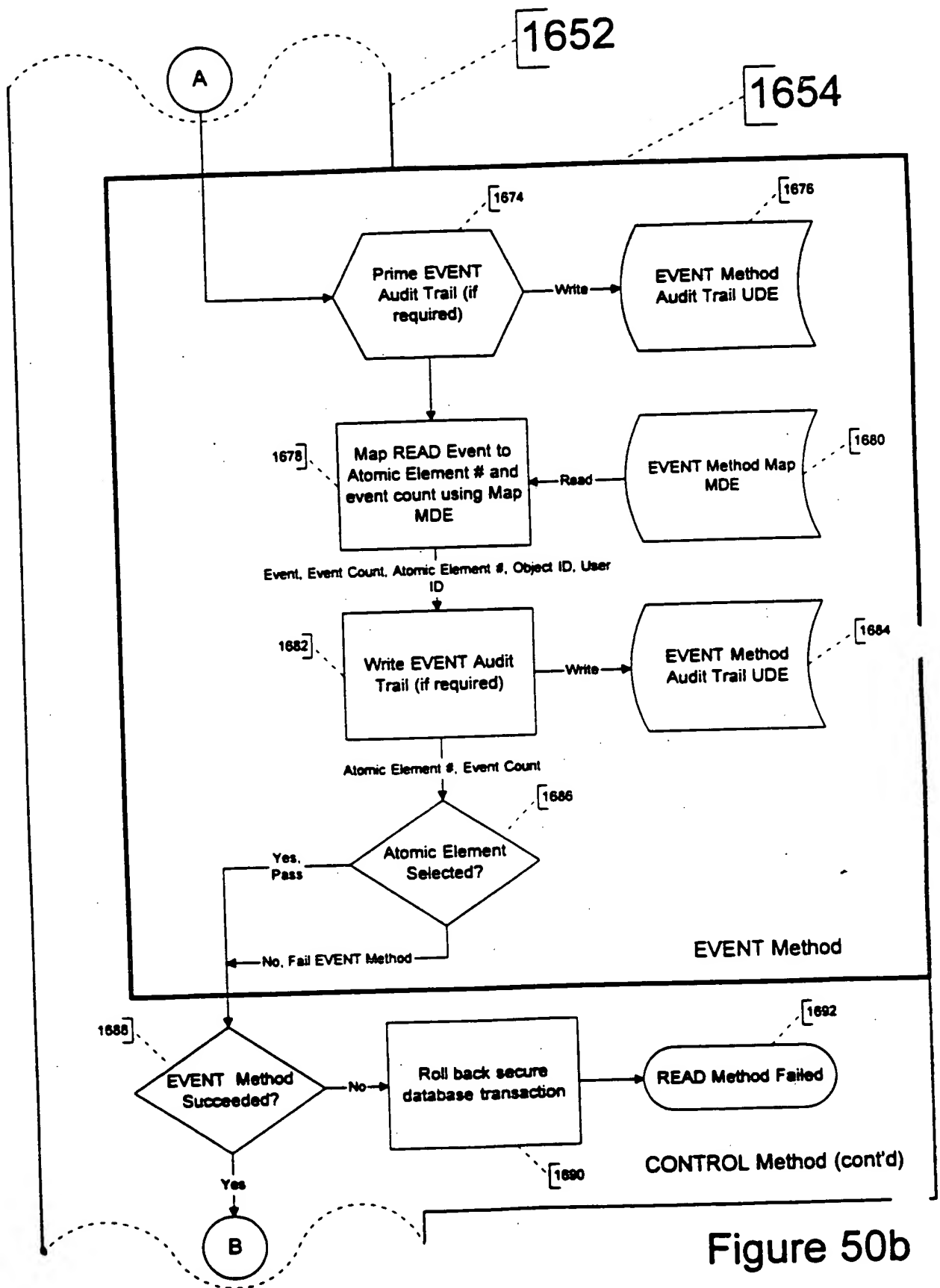


Figure 50b

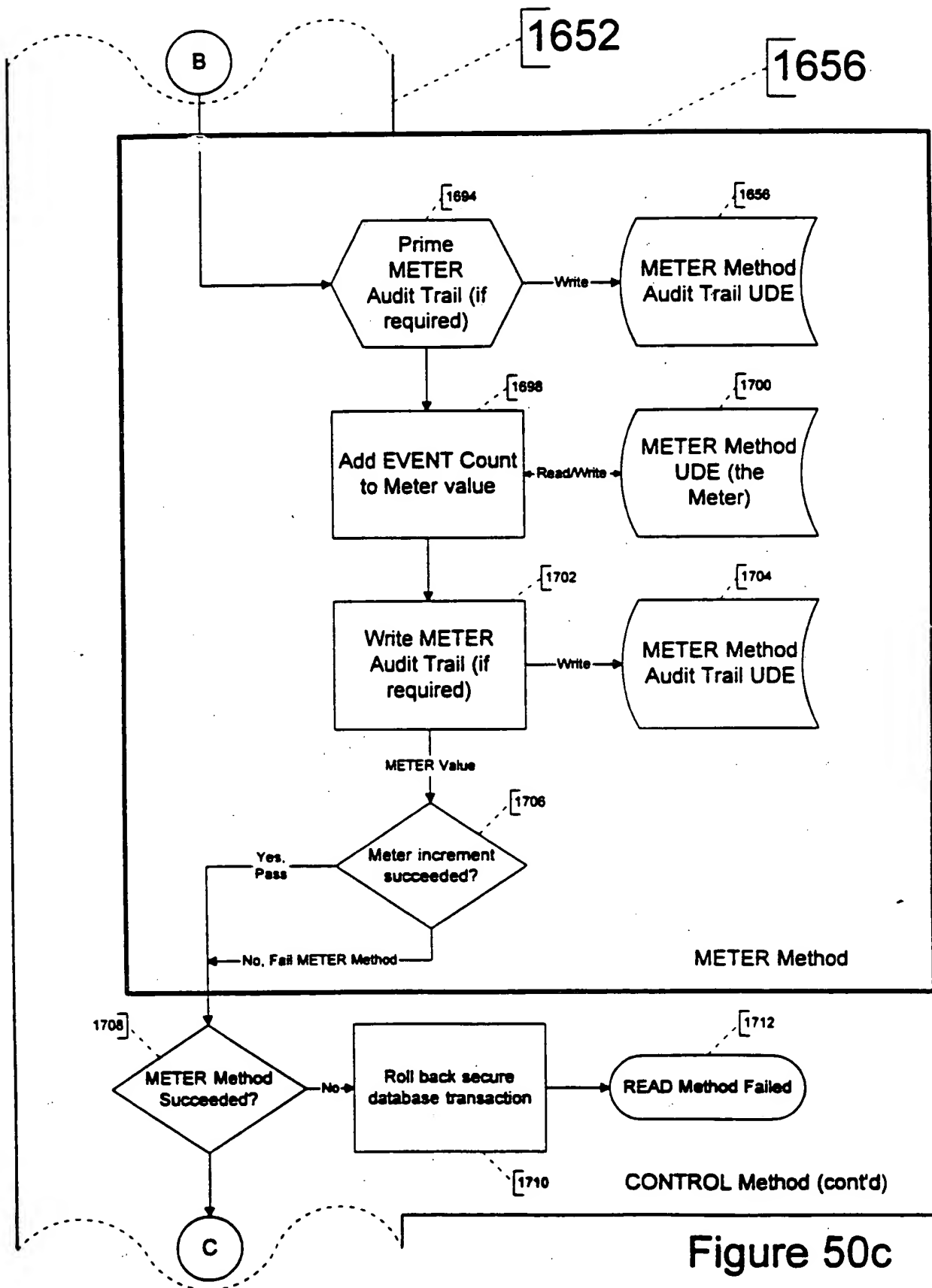
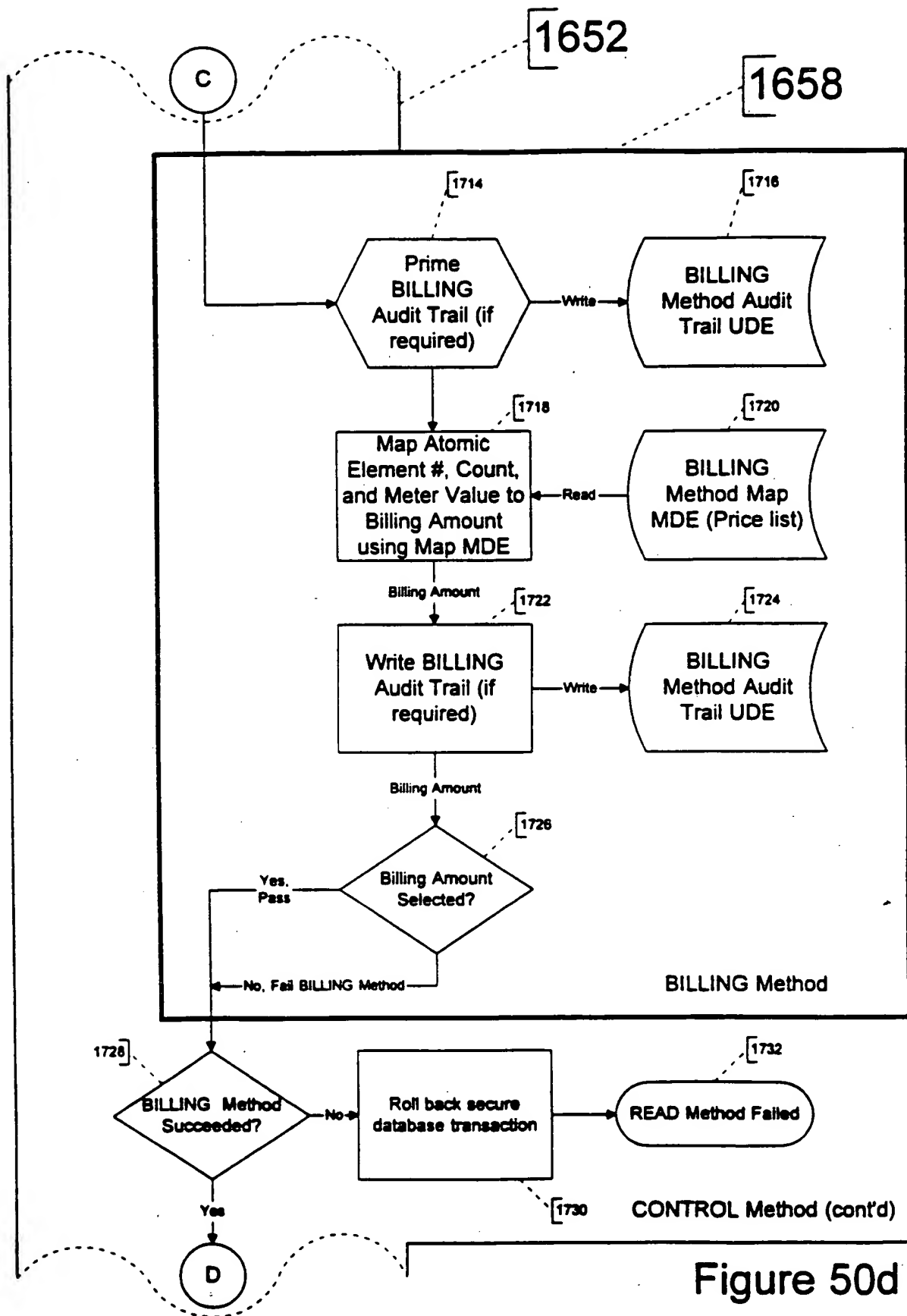


Figure 50c





09870801-060401

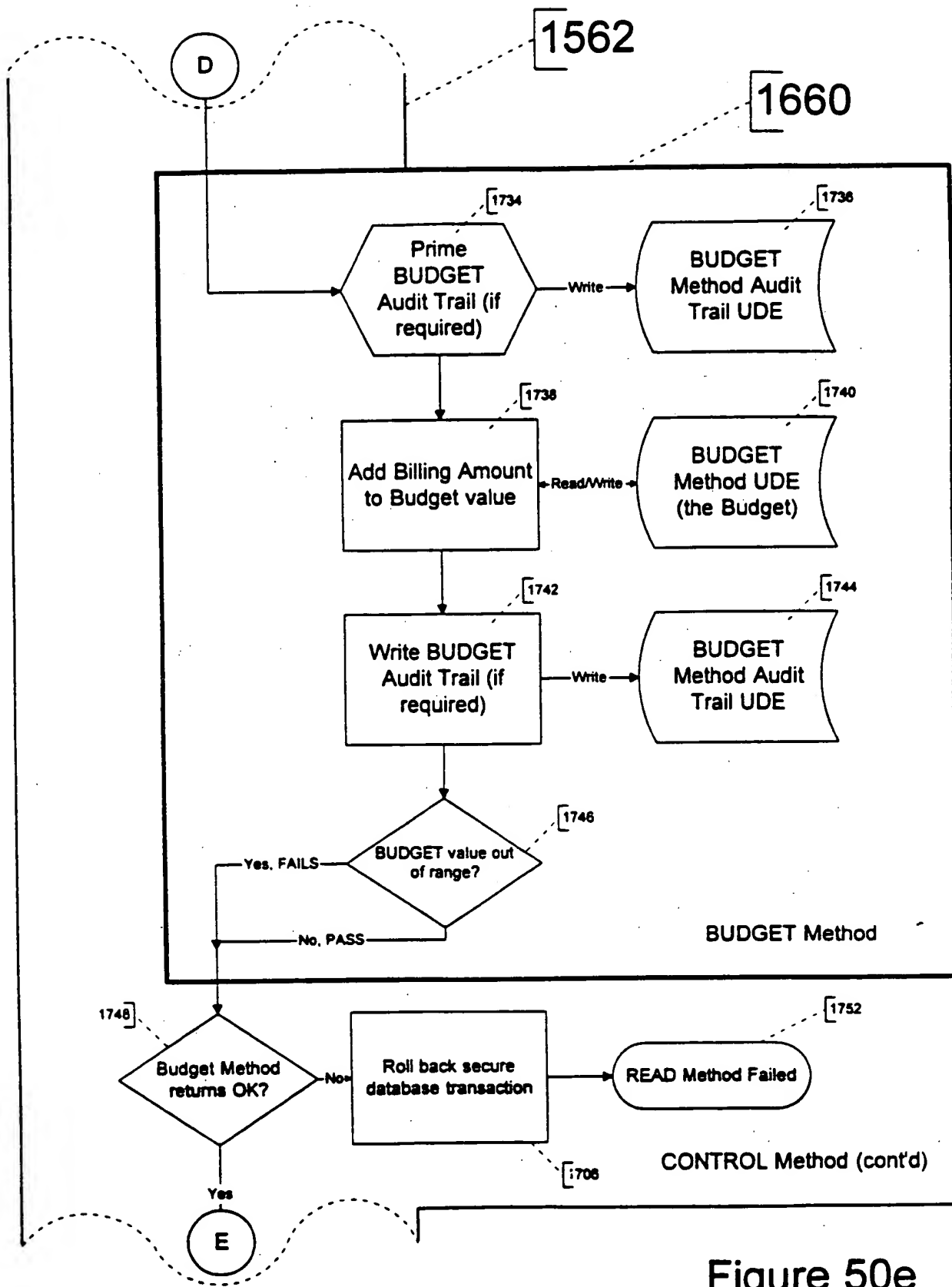
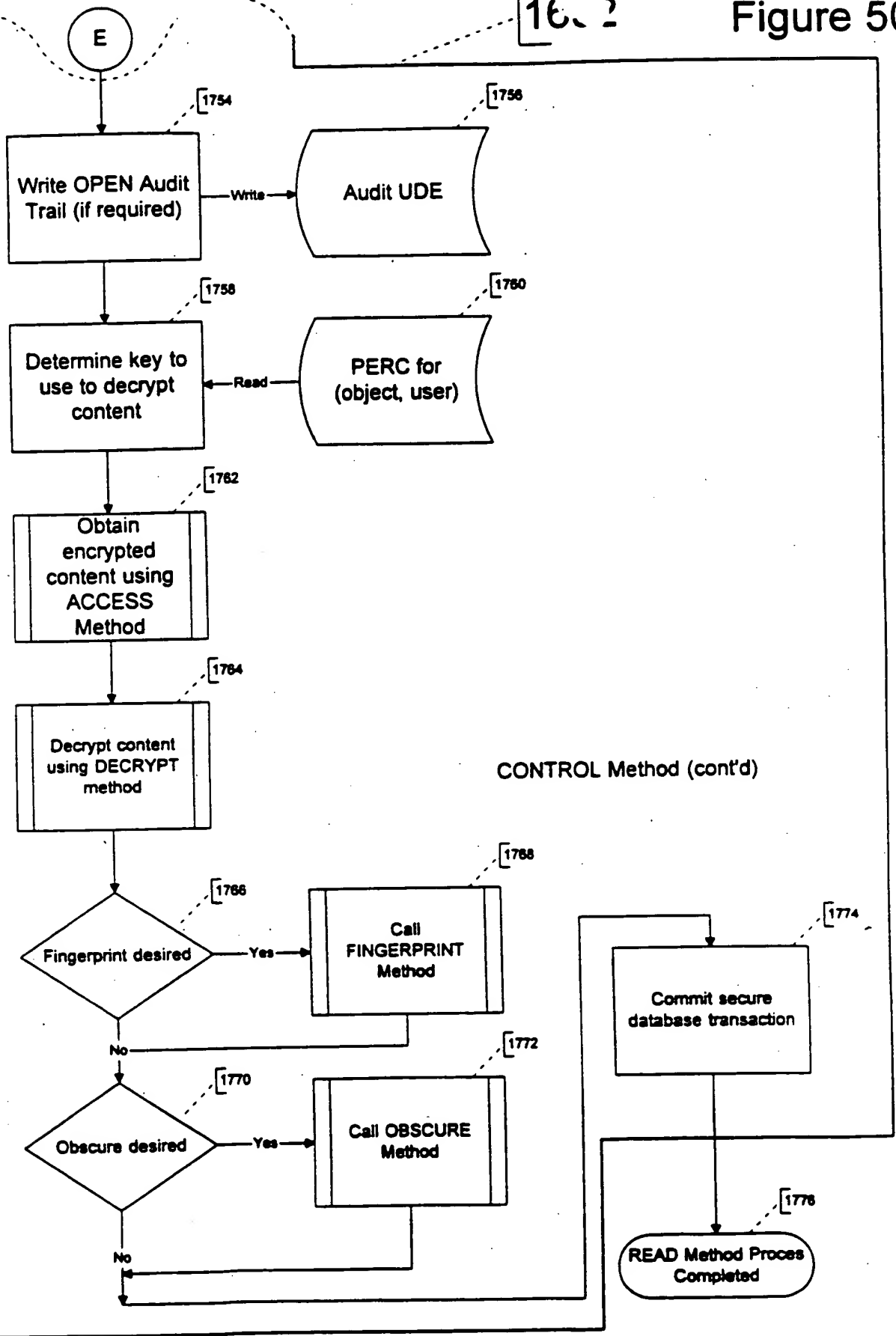


Figure 50e

09570804-060404



# WRITE Method Use Process Flow

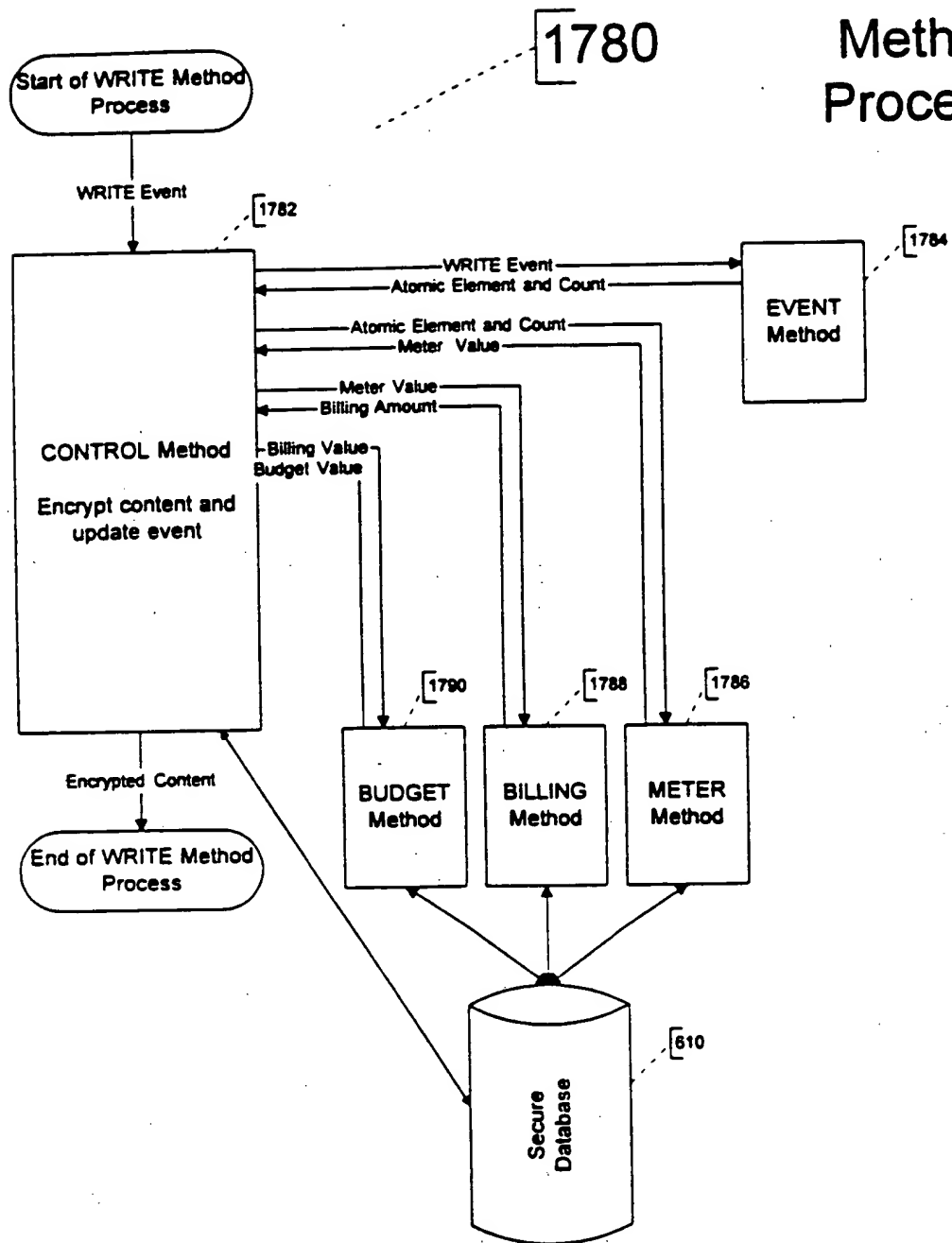


Figure 51

1780

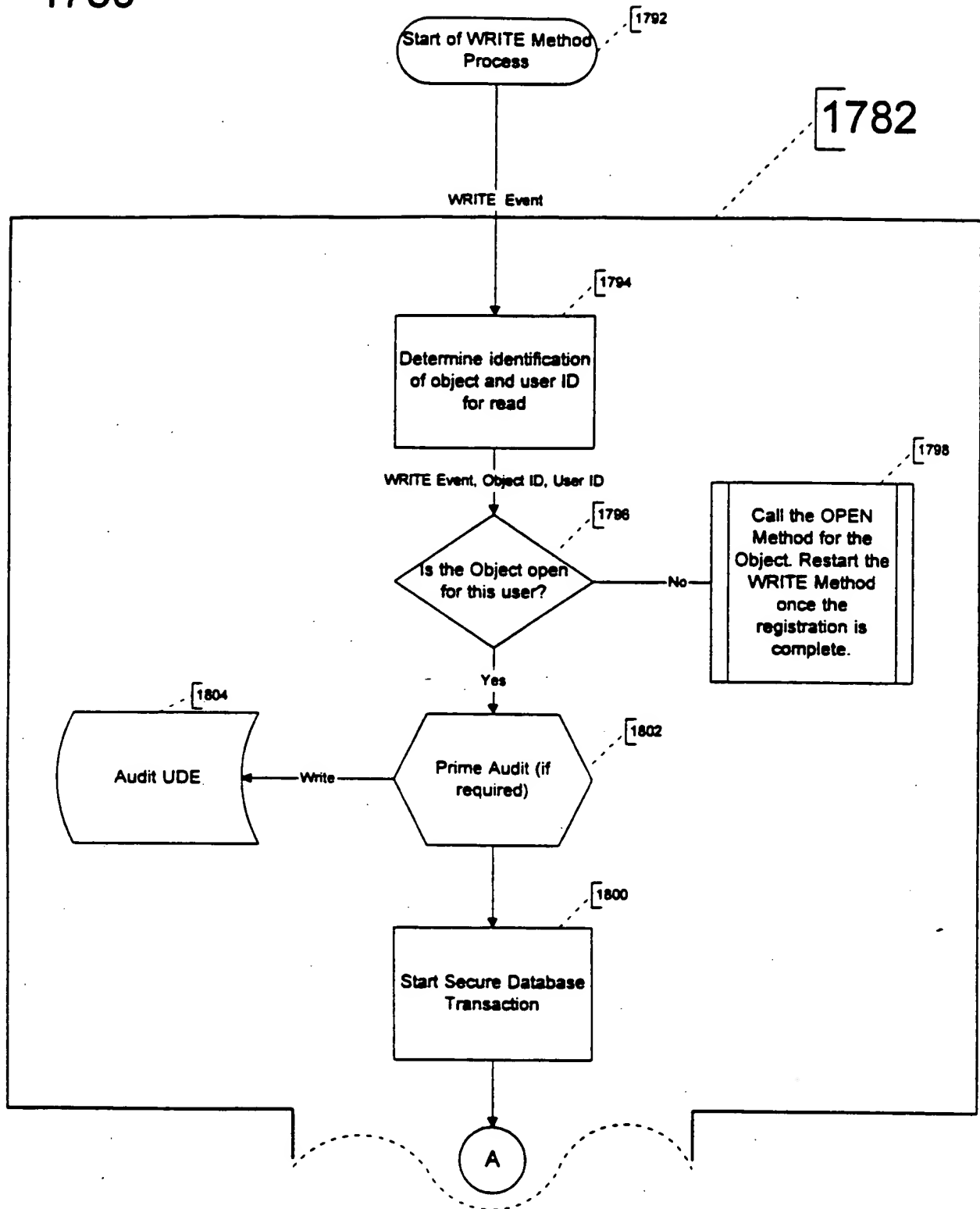


Figure 51a

09870801-050101

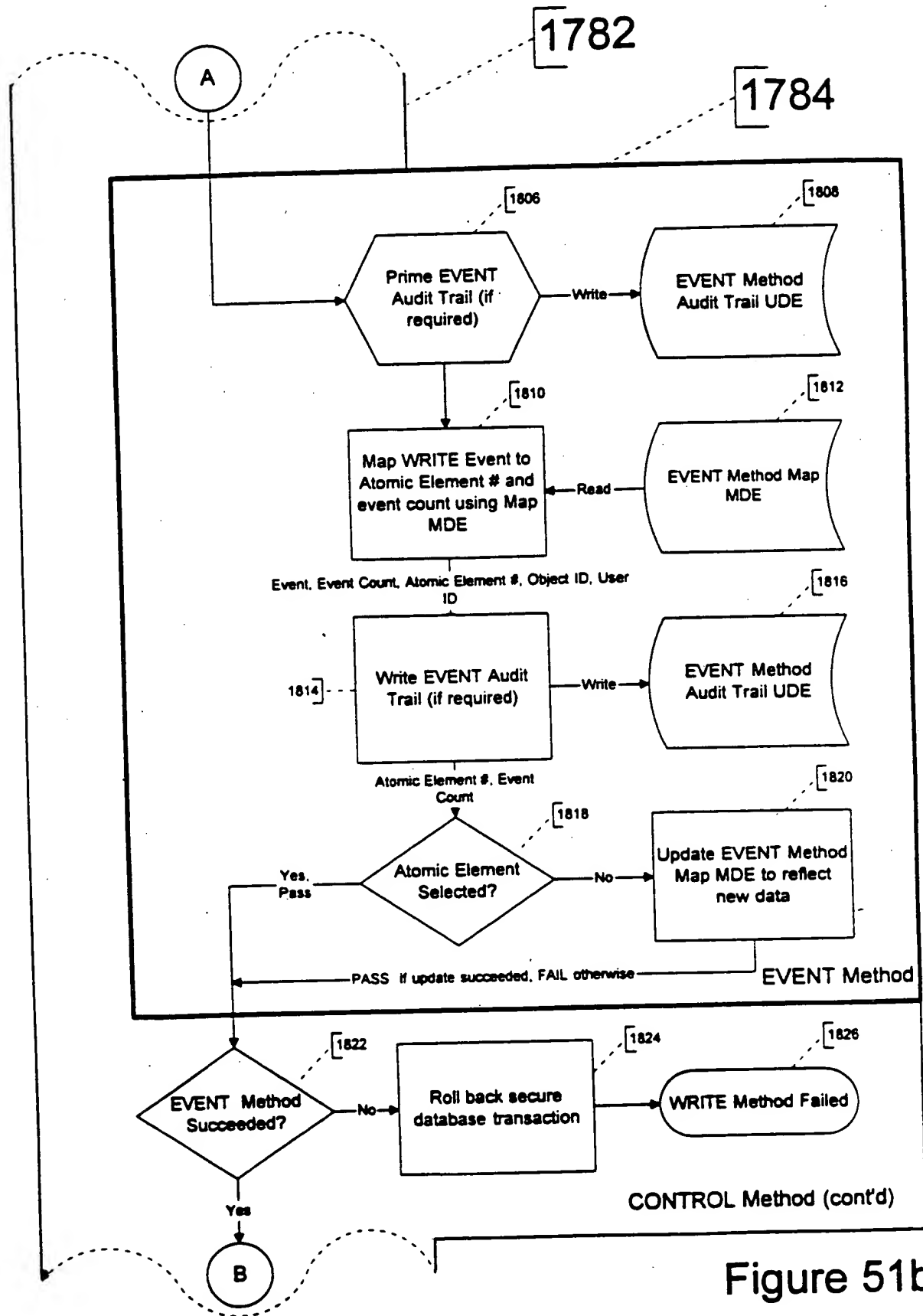


Figure 51b

05670801-060101

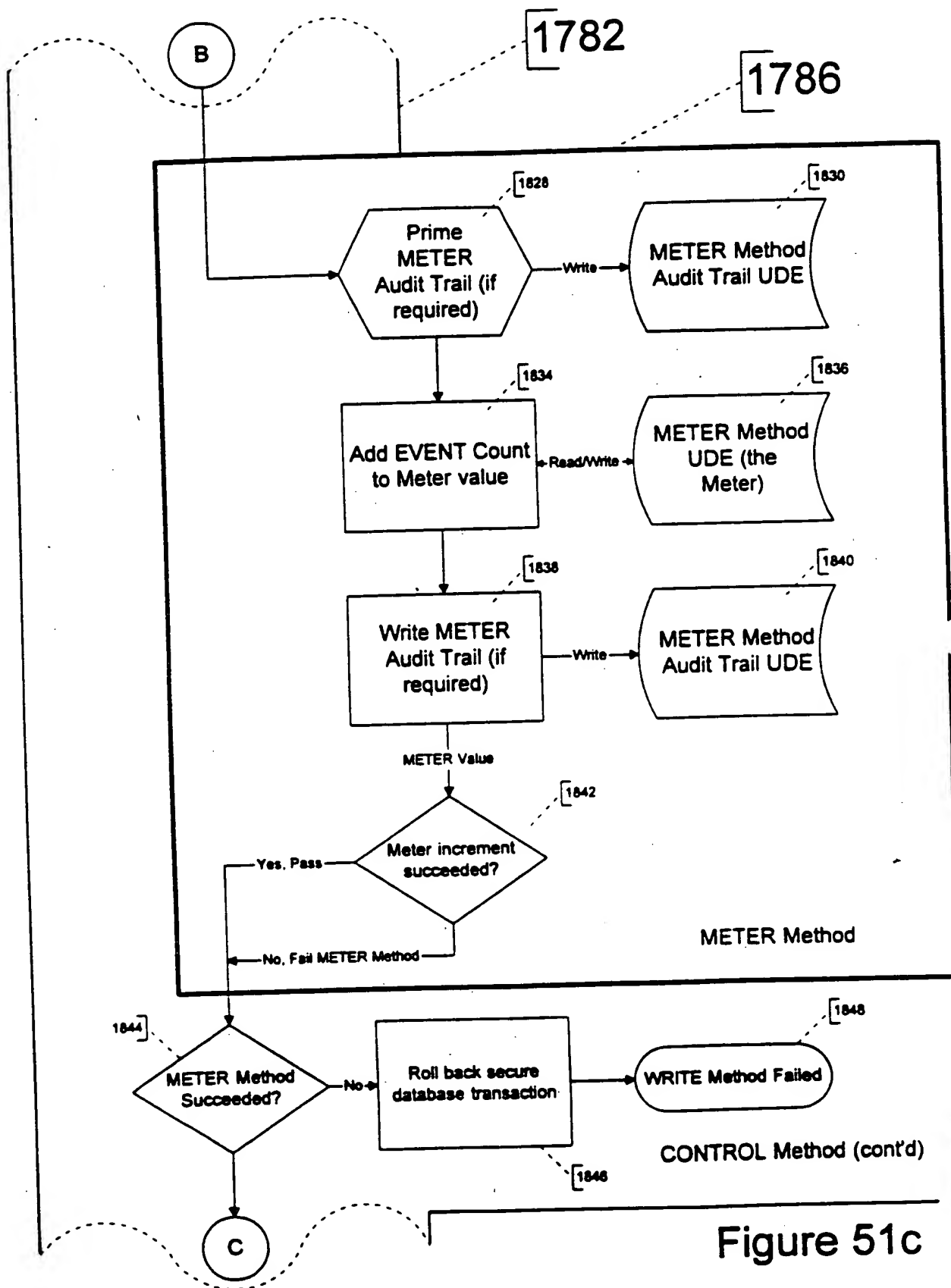


Figure 51c

09870301-050101

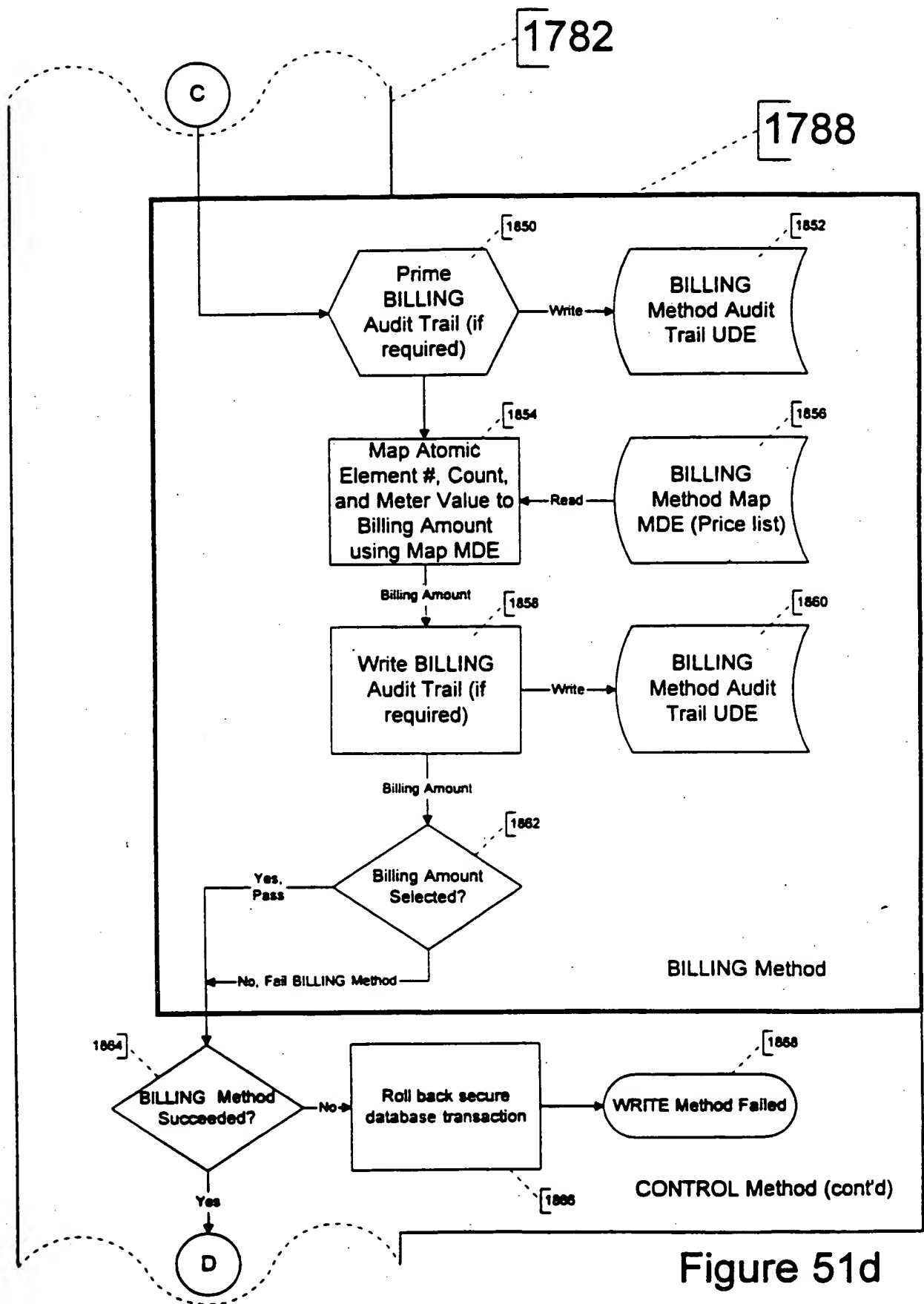


Figure 51d

09870804-06104

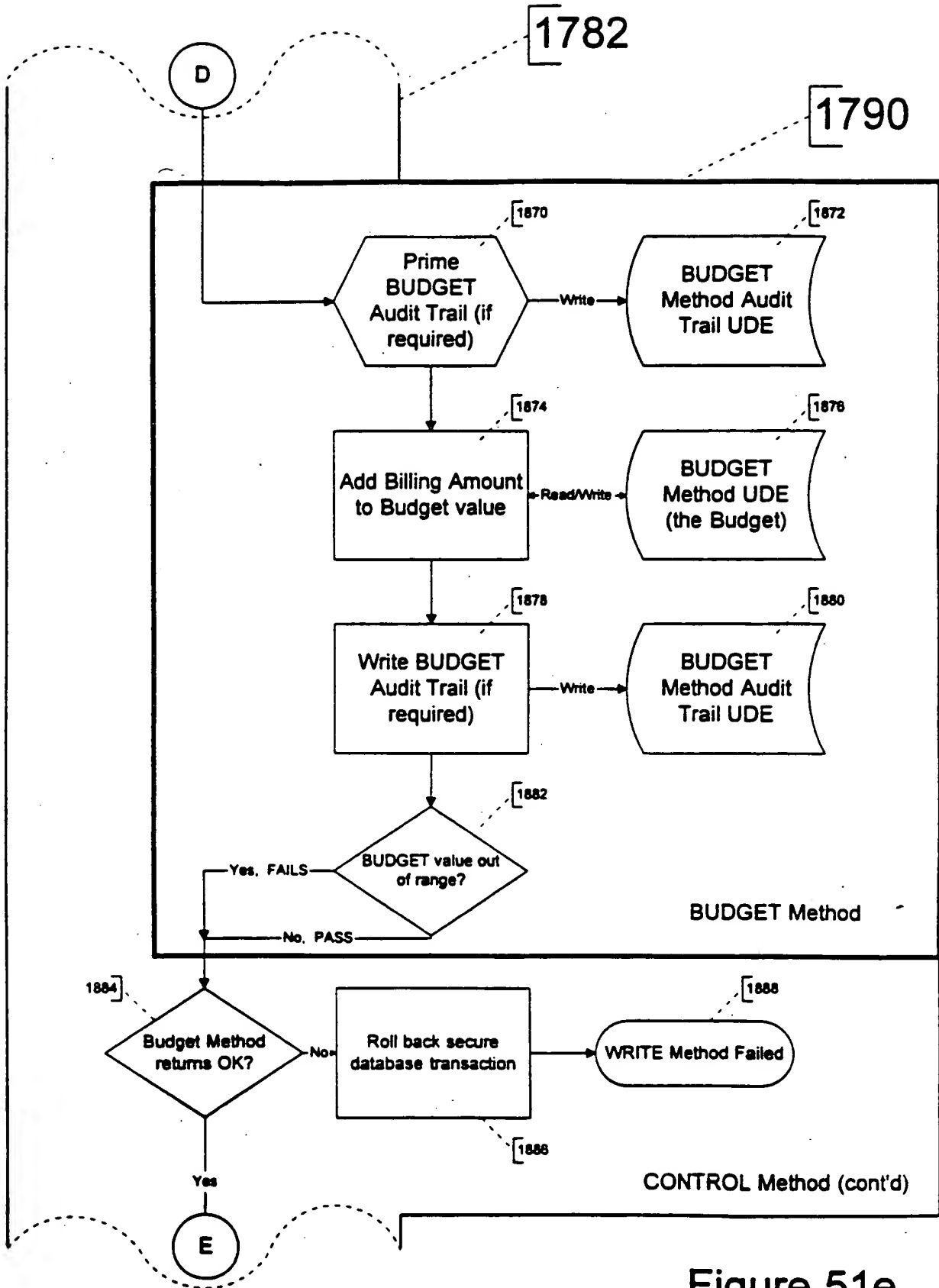


Figure 51e



09670801-060101

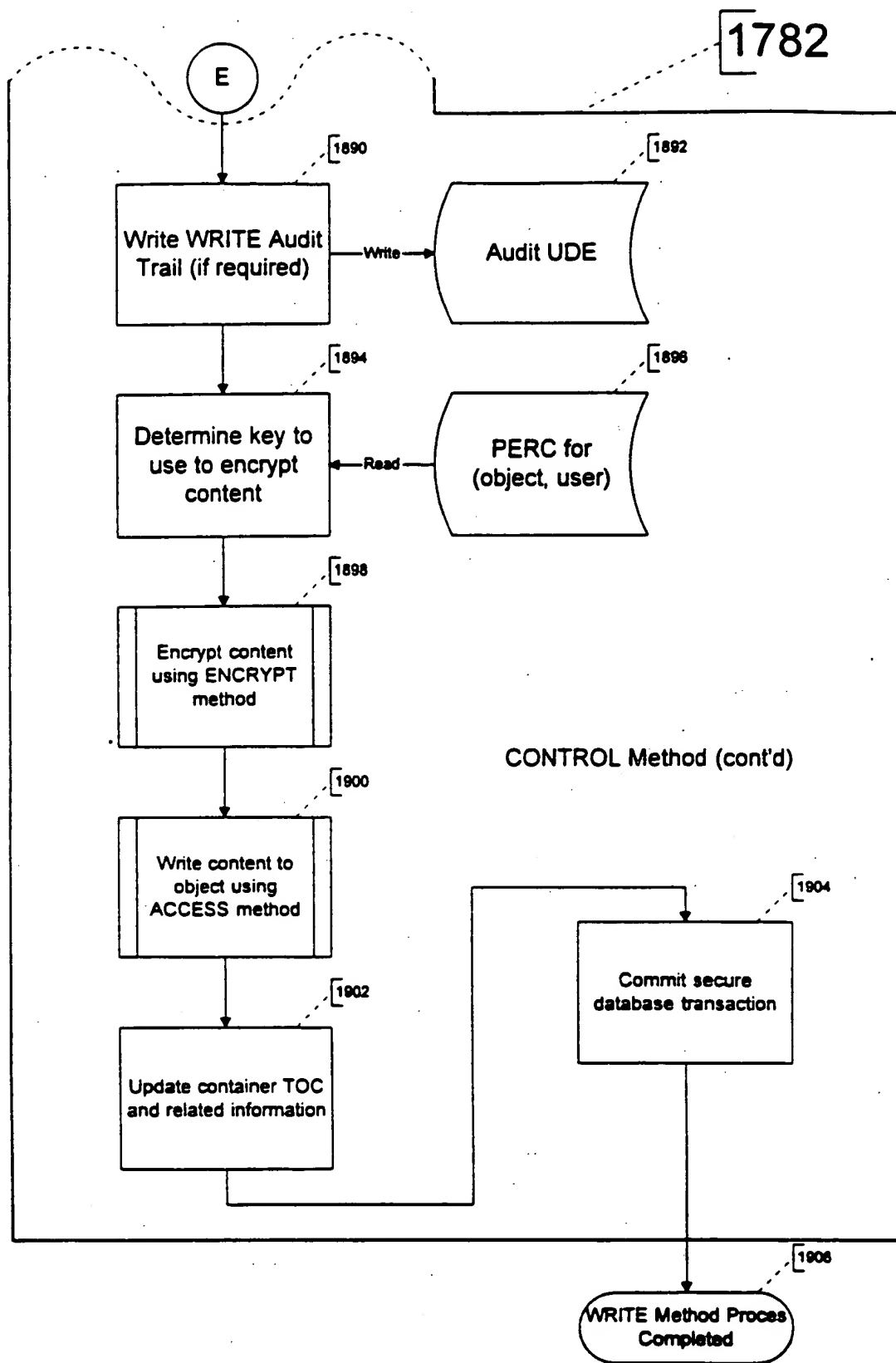
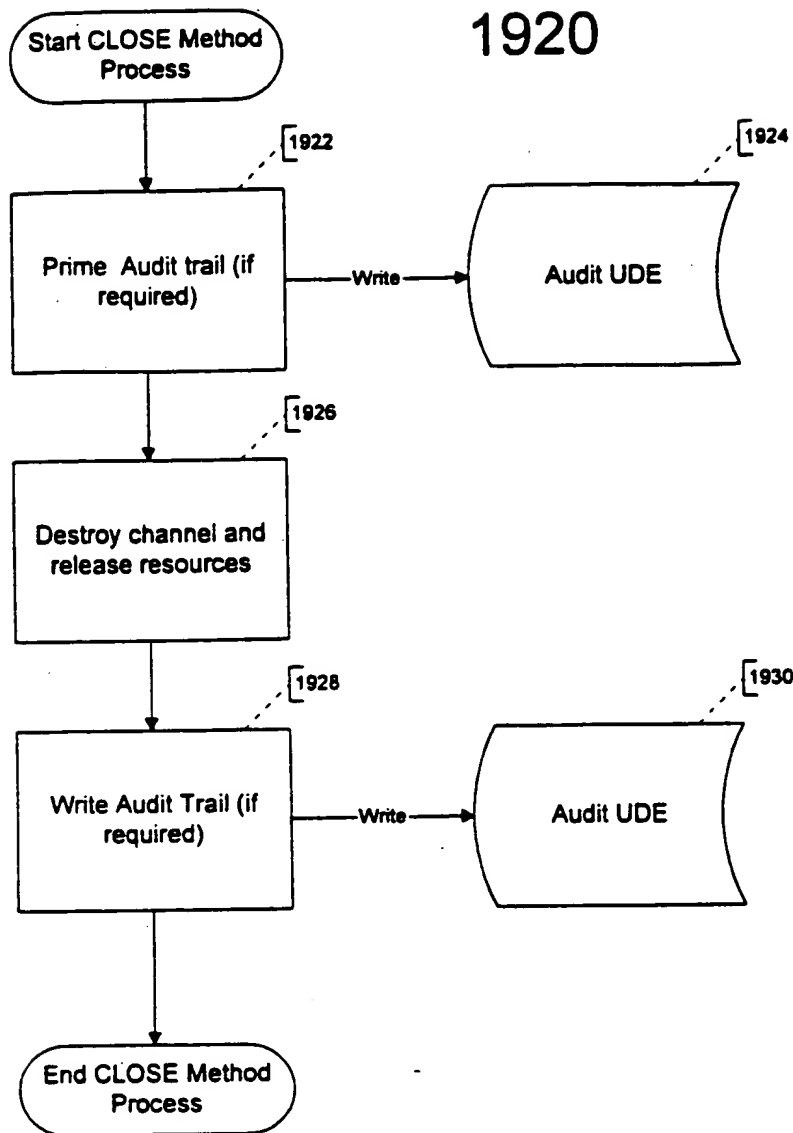


Figure 51f

09670801-050101



## CLOSE Method Process Flow

Figure 52

# EVENT Method Process Flows

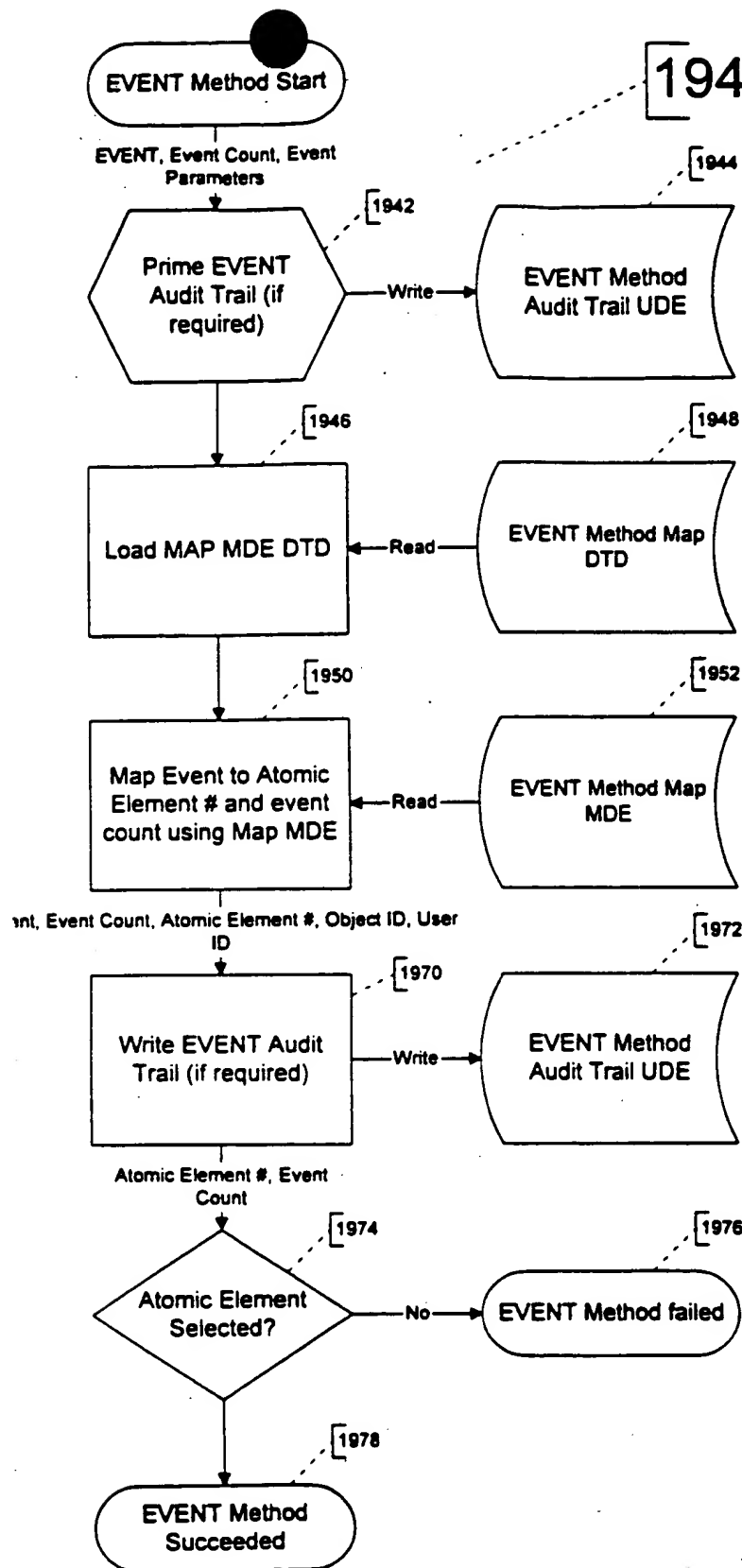


Figure 53a

# Sample EVENT Method Mapping Process

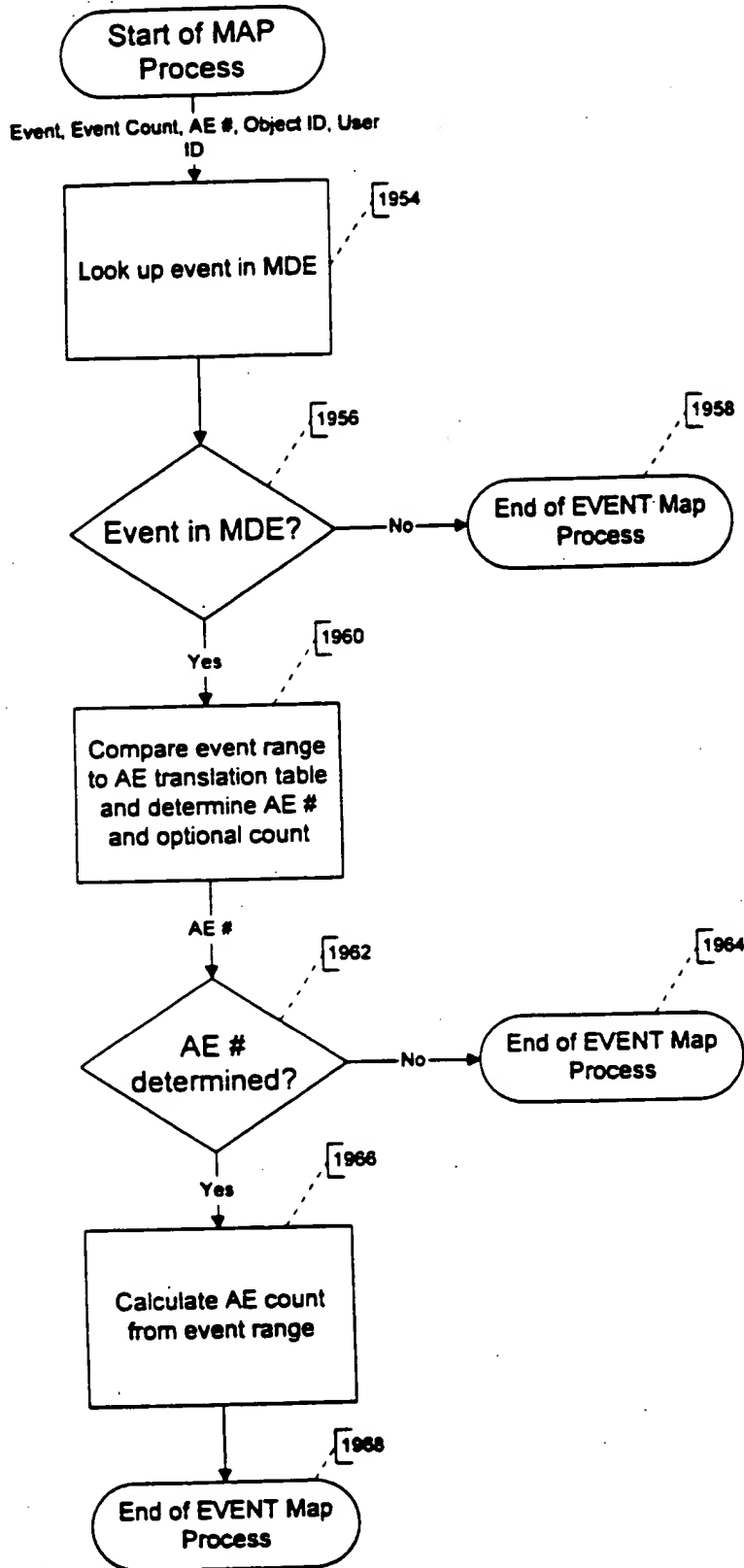


Figure 53t

# BILLING Method Process Flows

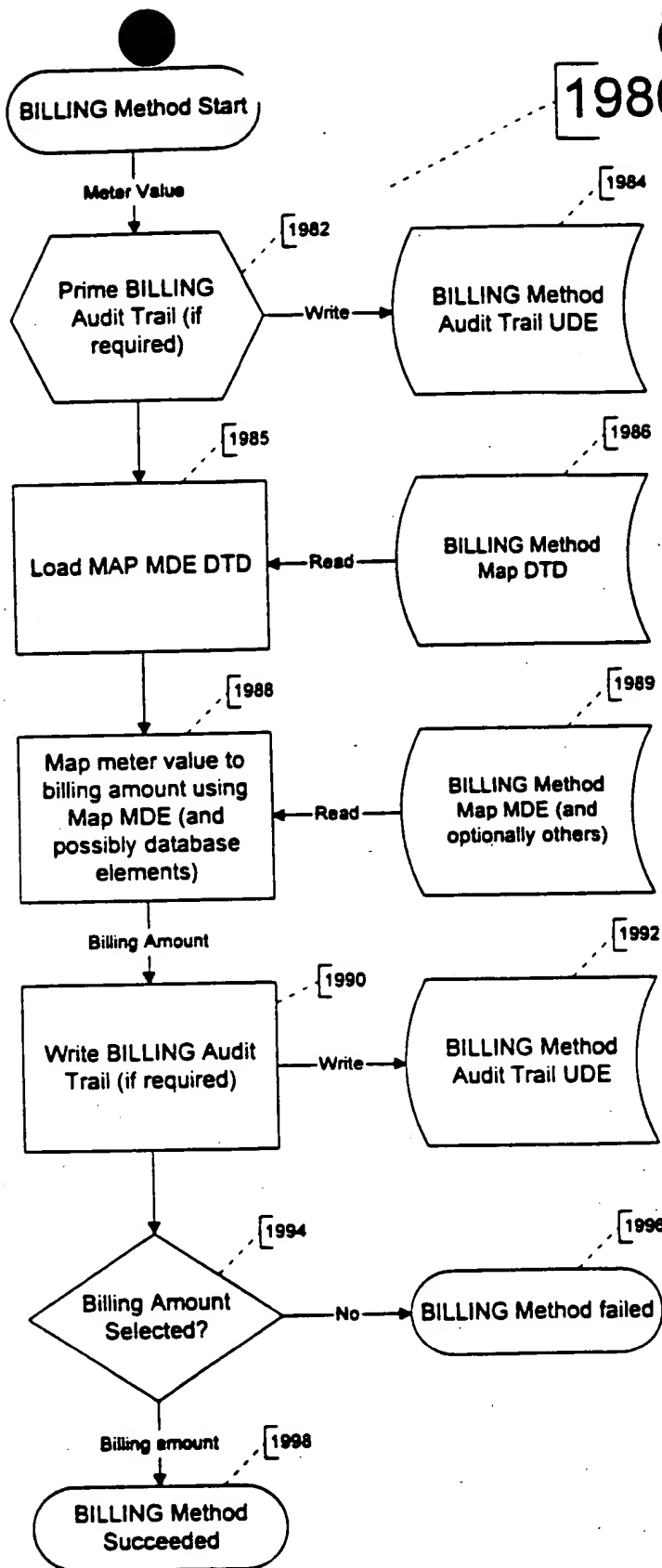


Figure 53c

# ACCESS Method Process Flow

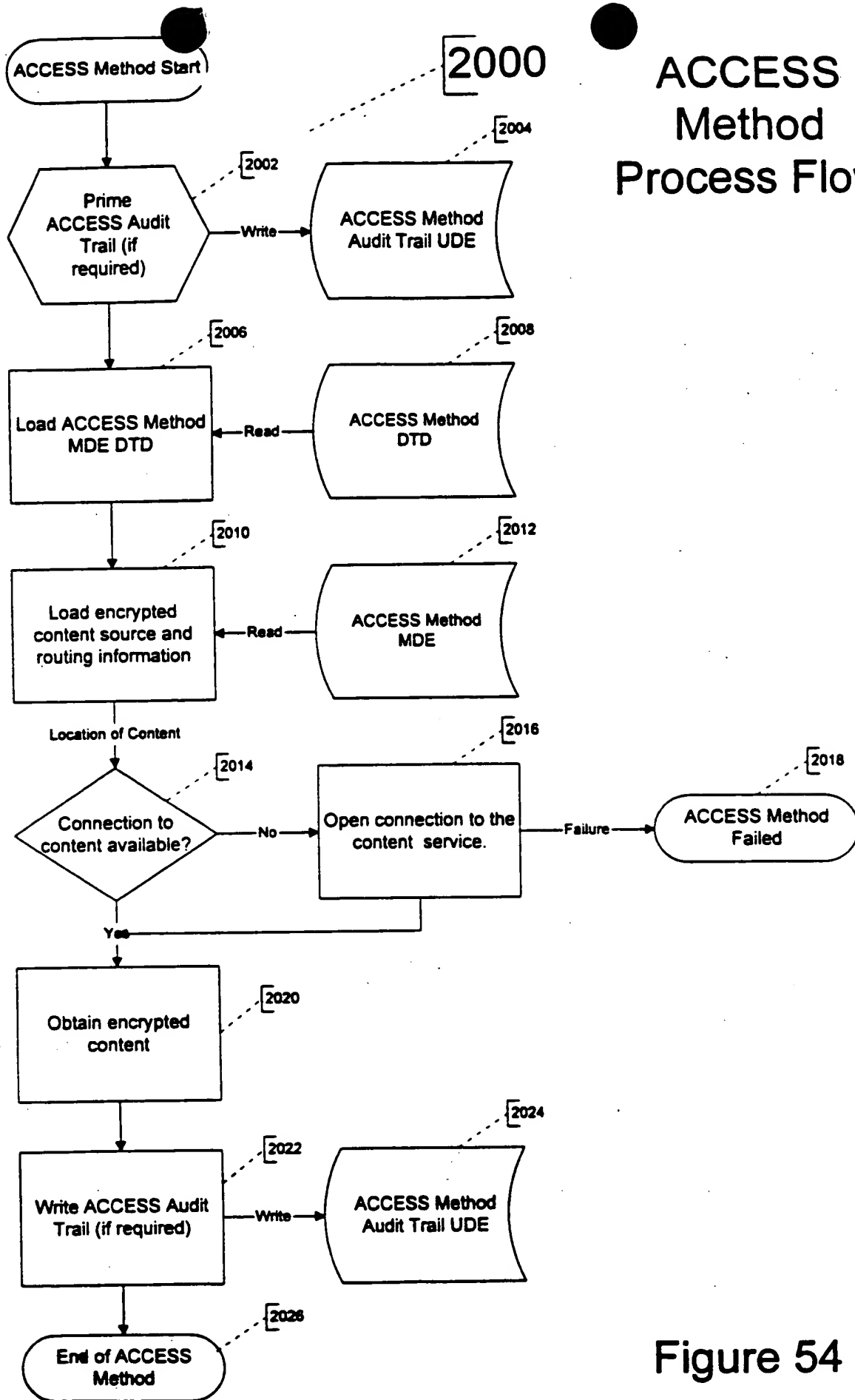


Figure 54

09270801-060404

# DECRYPT Method Process Flow

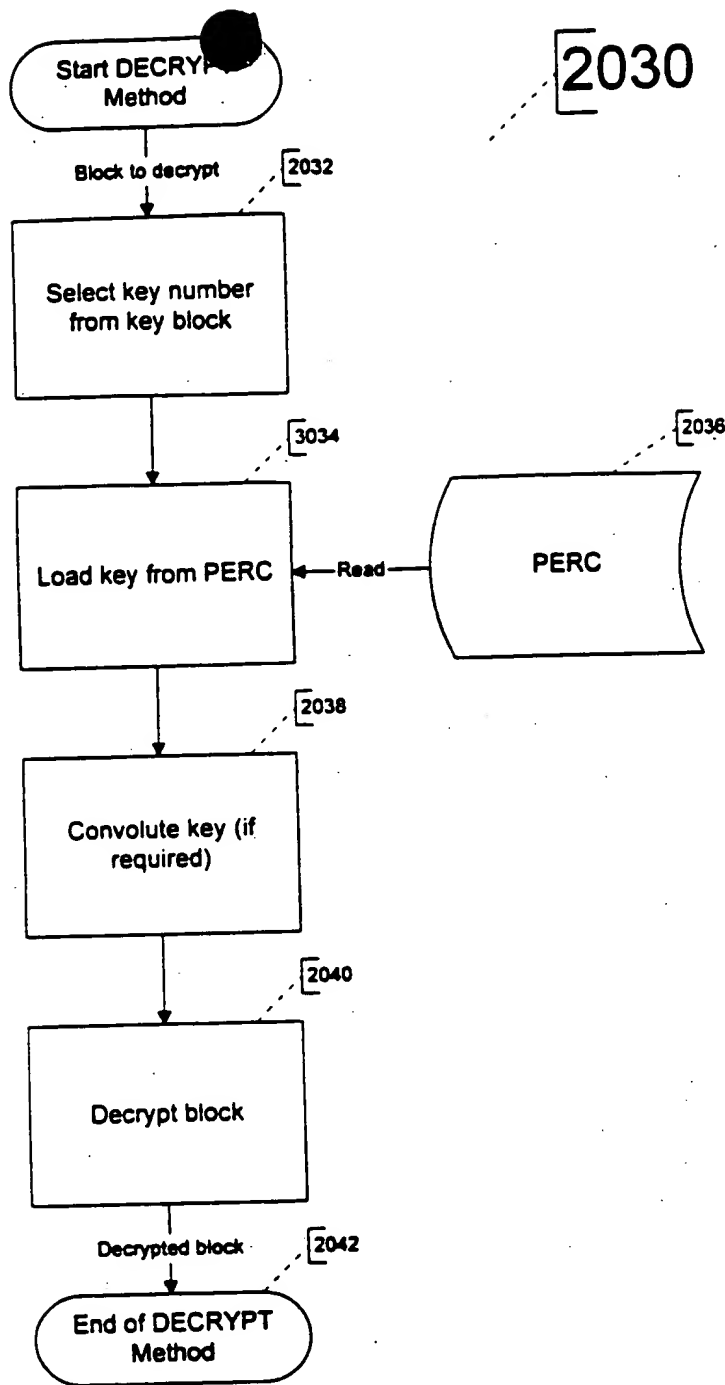


Figure 55a

# ENCRYPT Method Process Flow

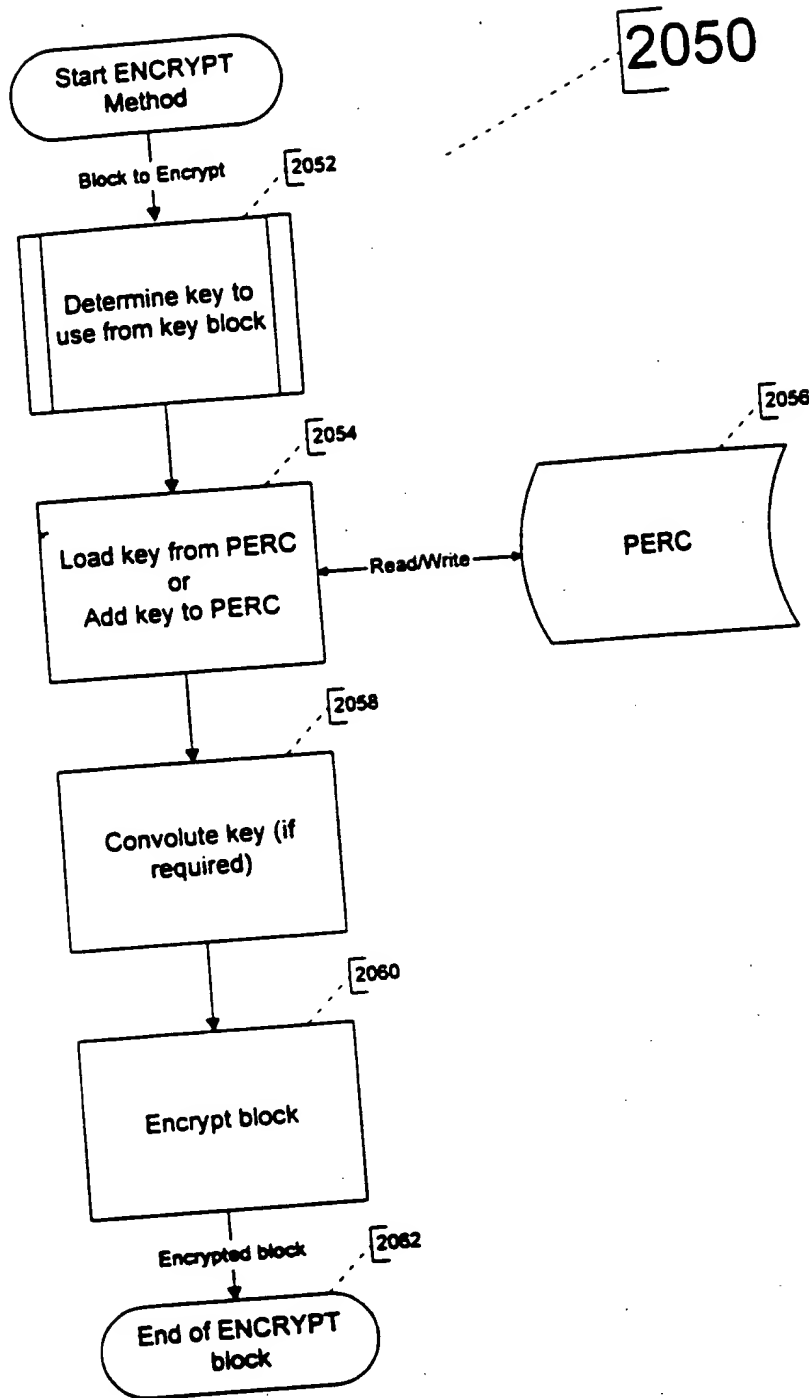


Figure 55b



# CONTENT Method Process Flow

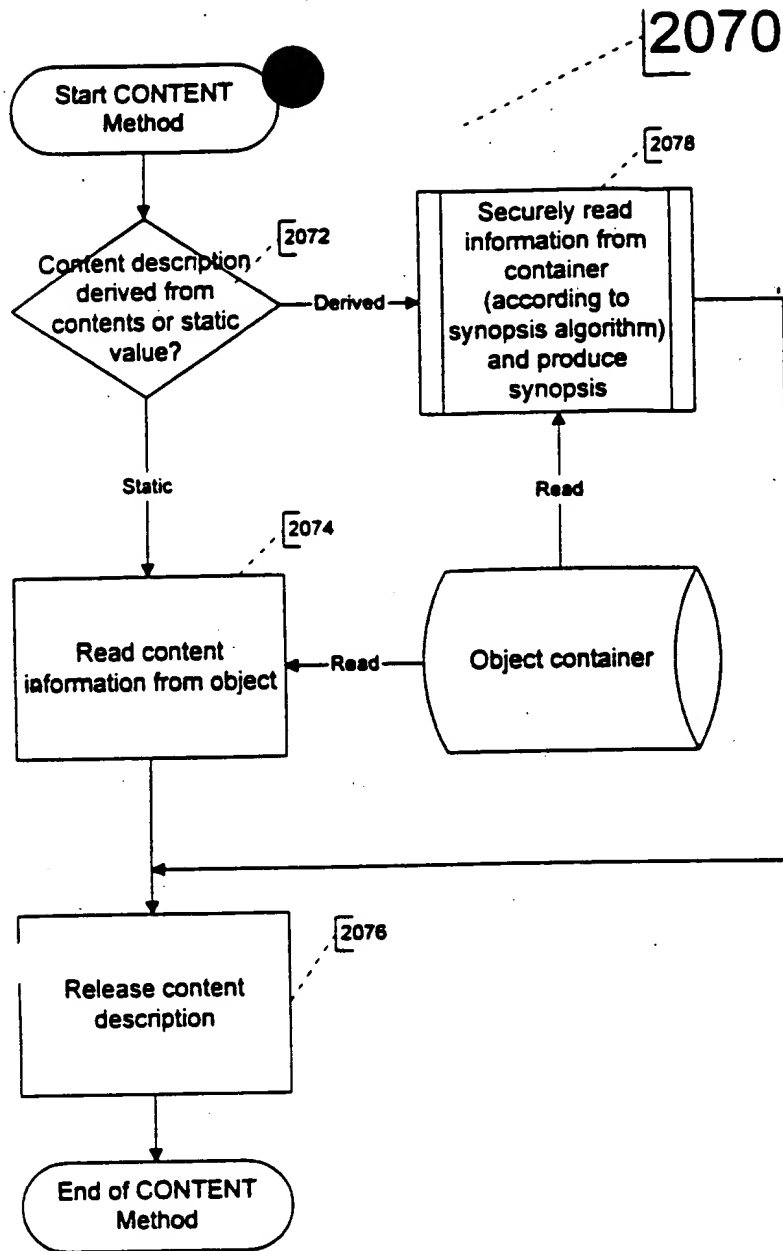


Figure 56

# EXTRACT Method Process Flow

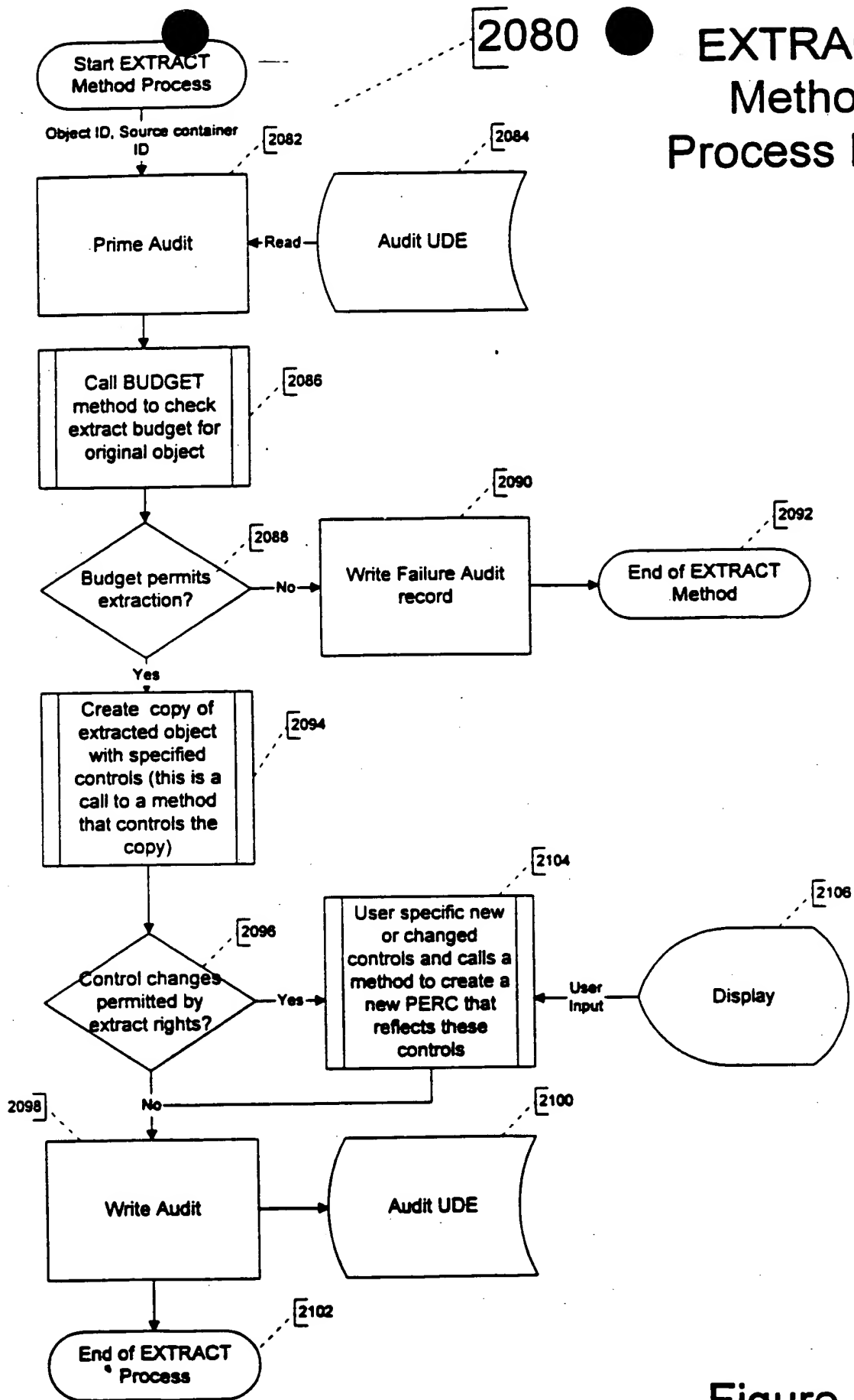


Figure 57a

# EMBED Method Process Flow

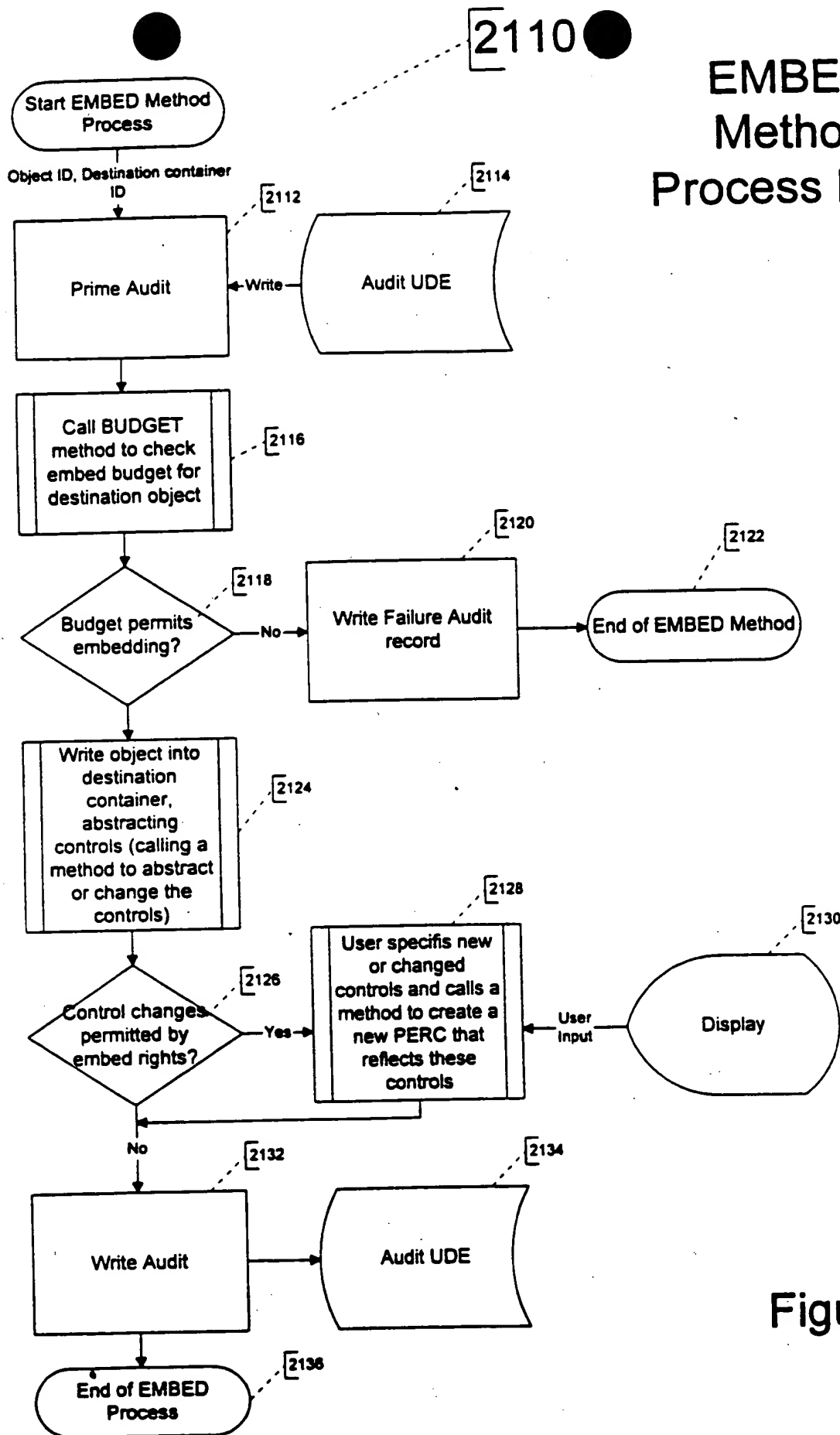


Figure 57b

# OBSCURE Method Process Flow

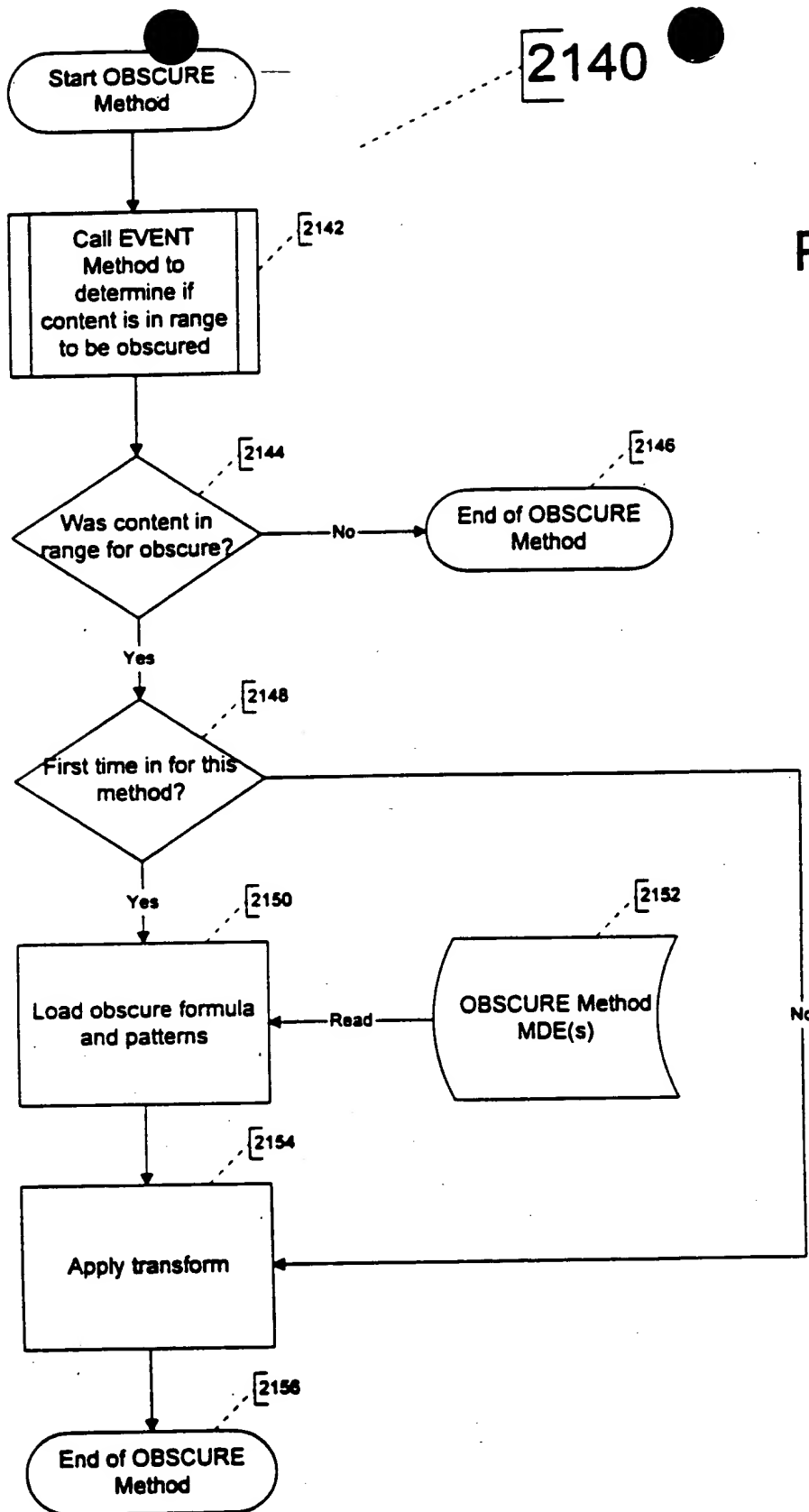


Figure 58a

# FINGERPRINT Method Process Flow

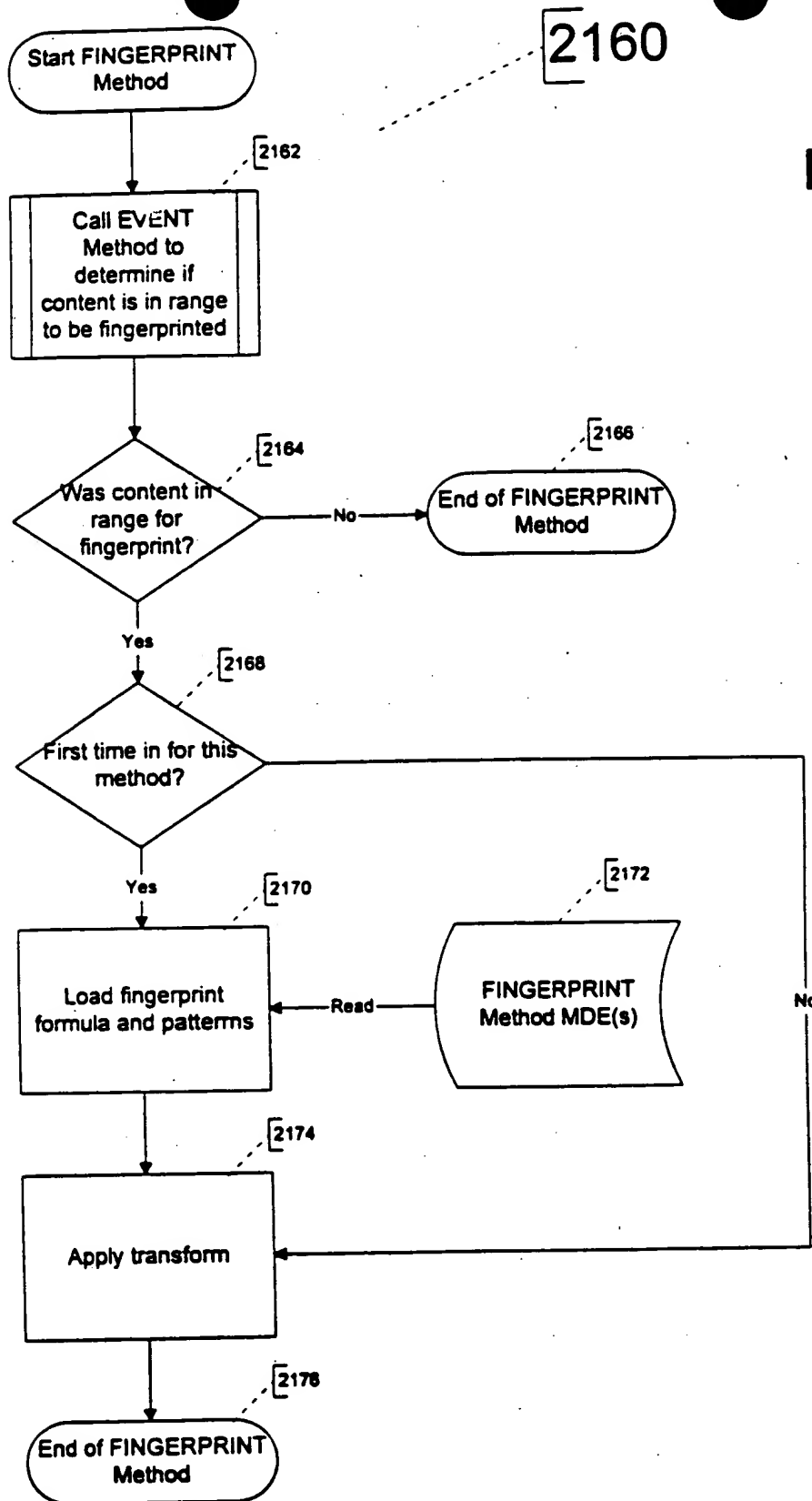


Figure 58b

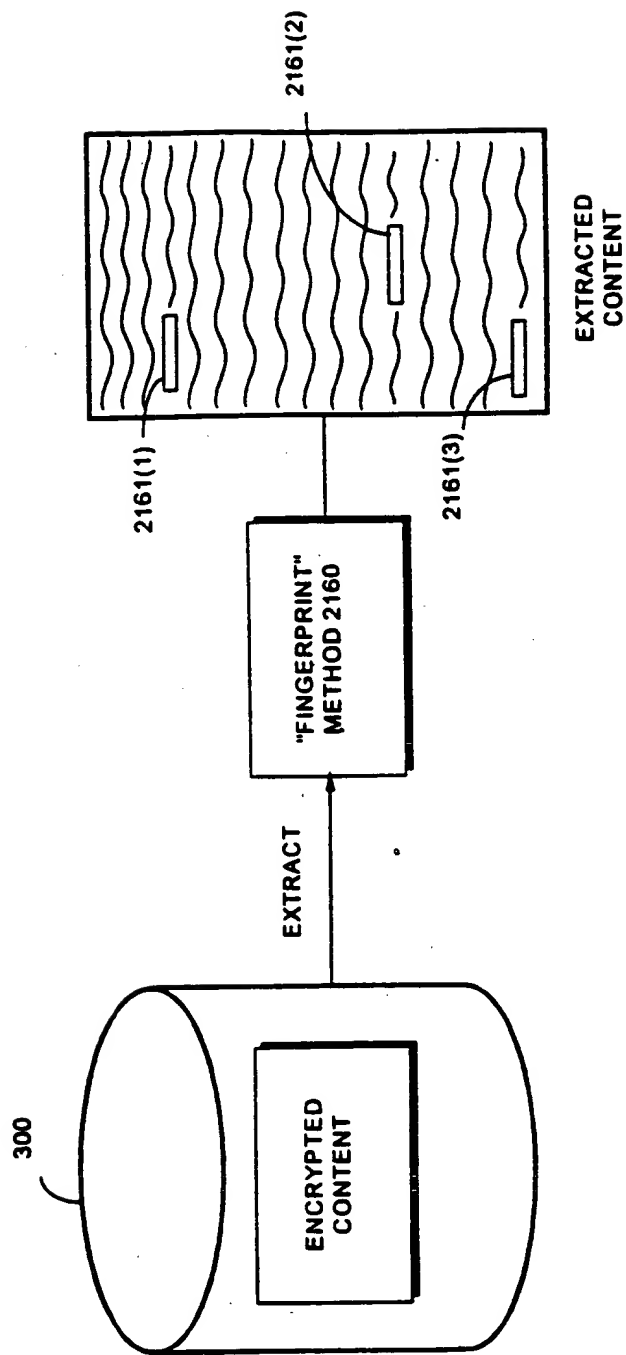


FIG. 58C

# DESTROY Method Process Flow

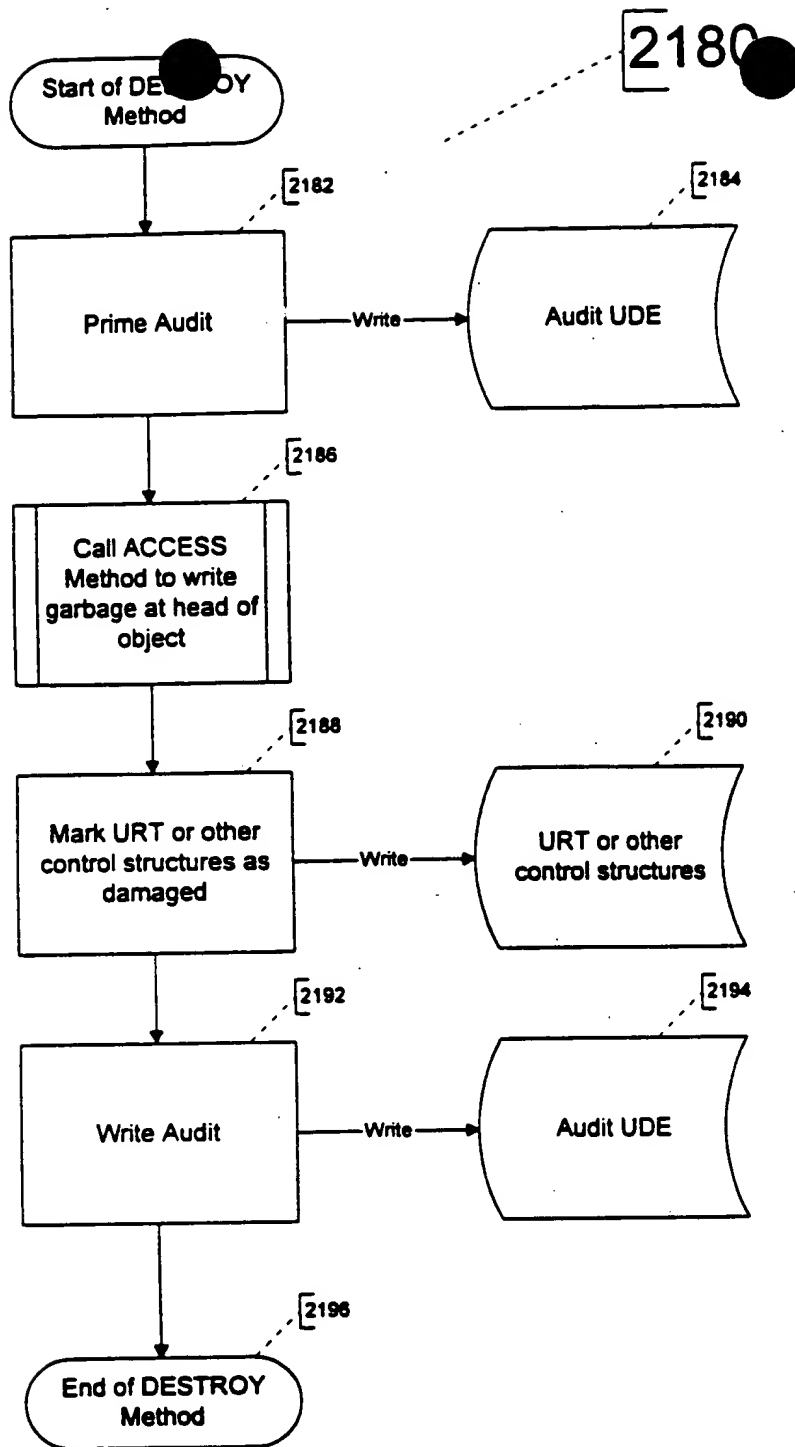


Figure 59

# PANIC Method Process Flow

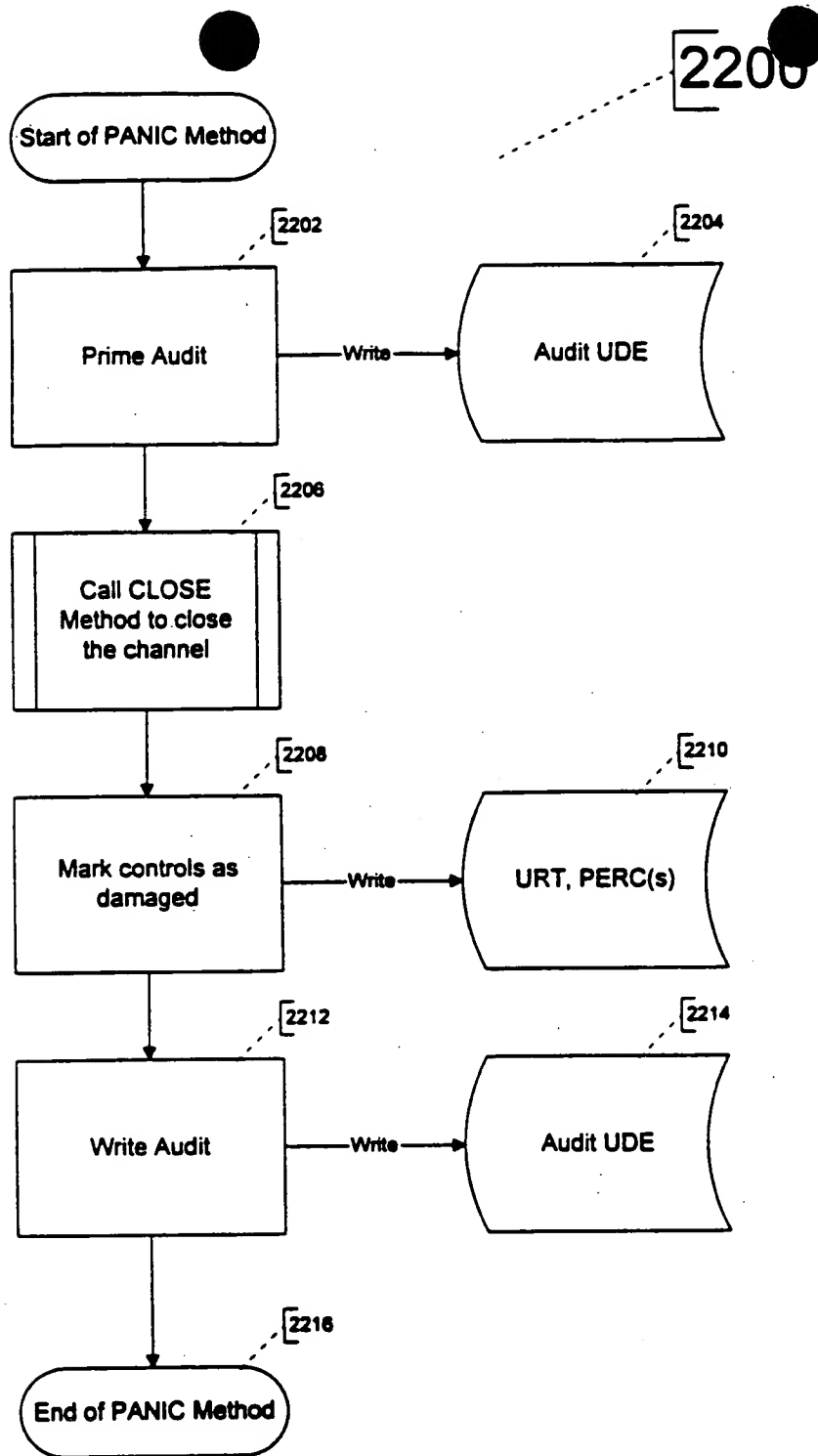


Figure 60



# METER Method Use Process Flow

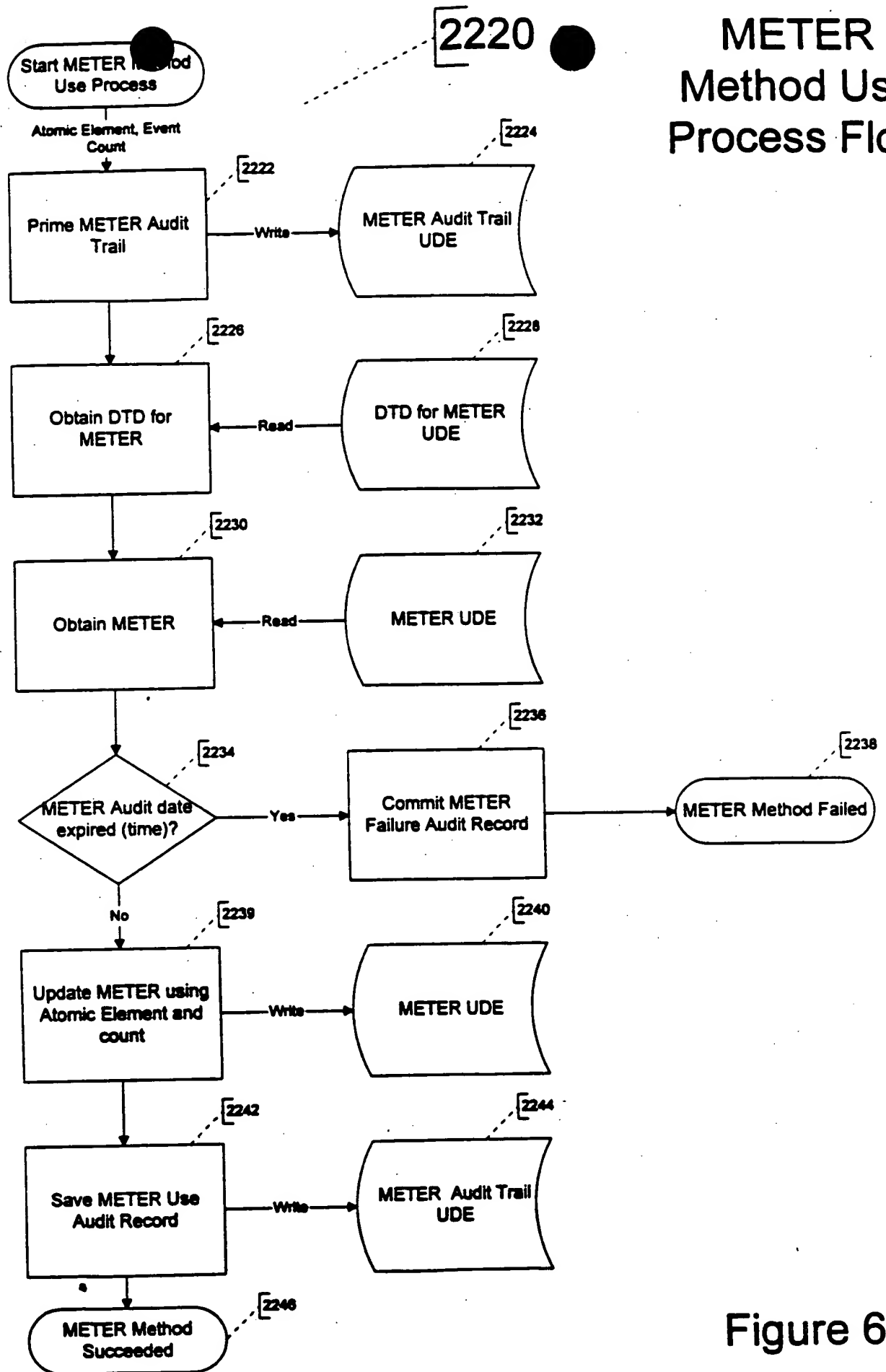
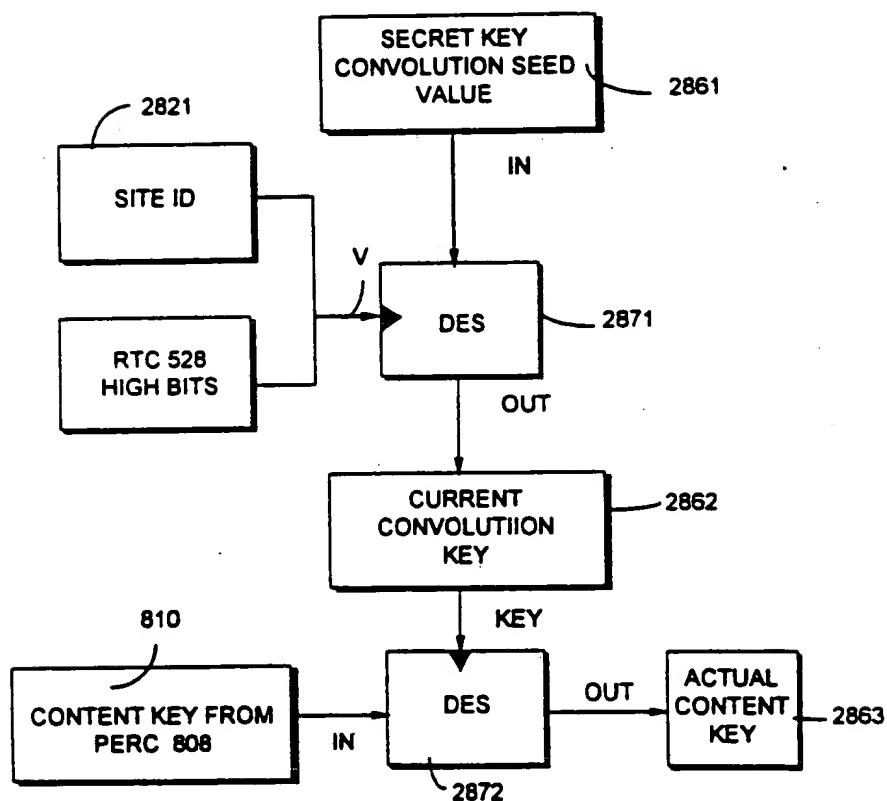


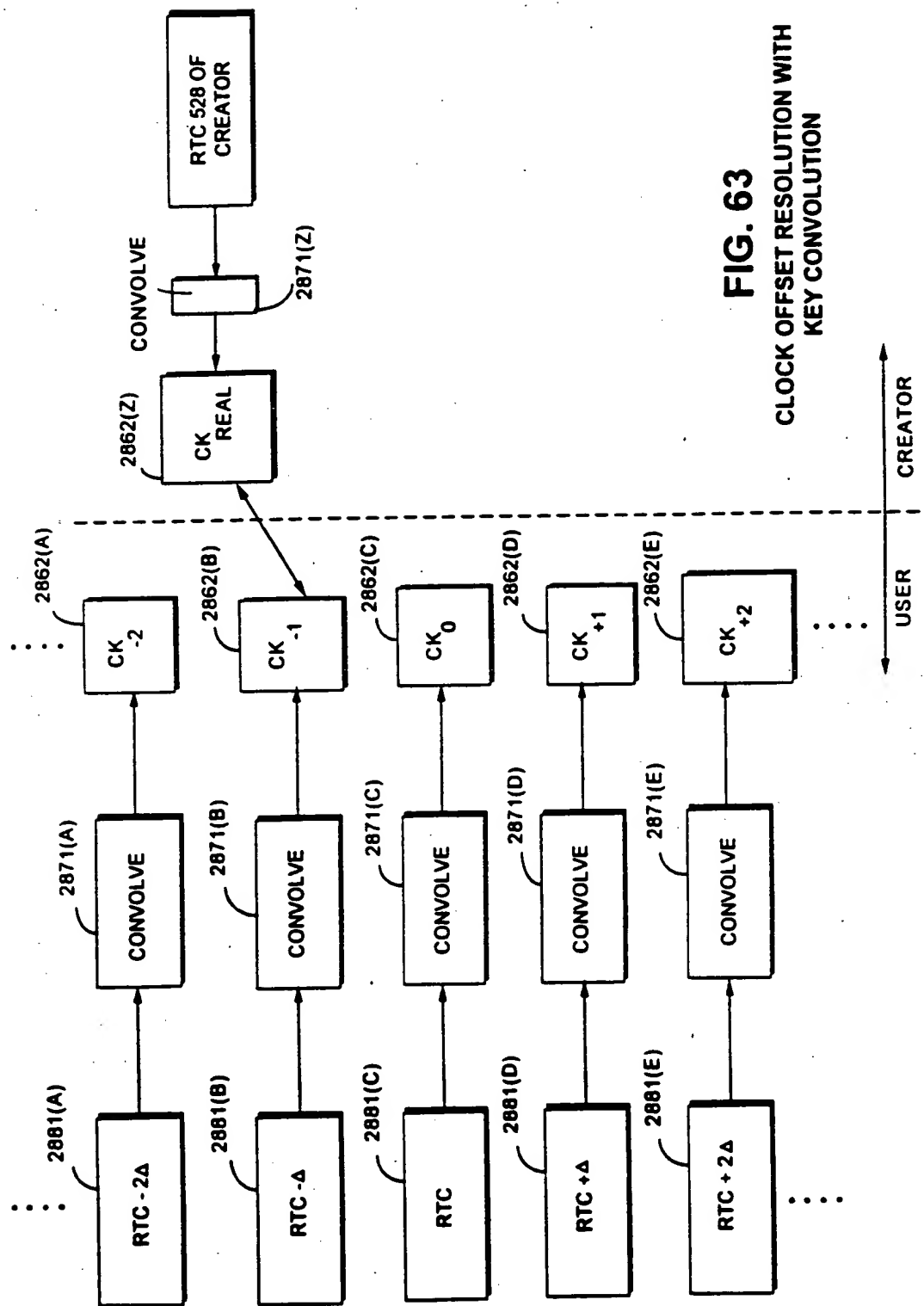
Figure 61

09870801-060404

**FIG. 62**  
**KEY CONVOLUTION PROCESS**

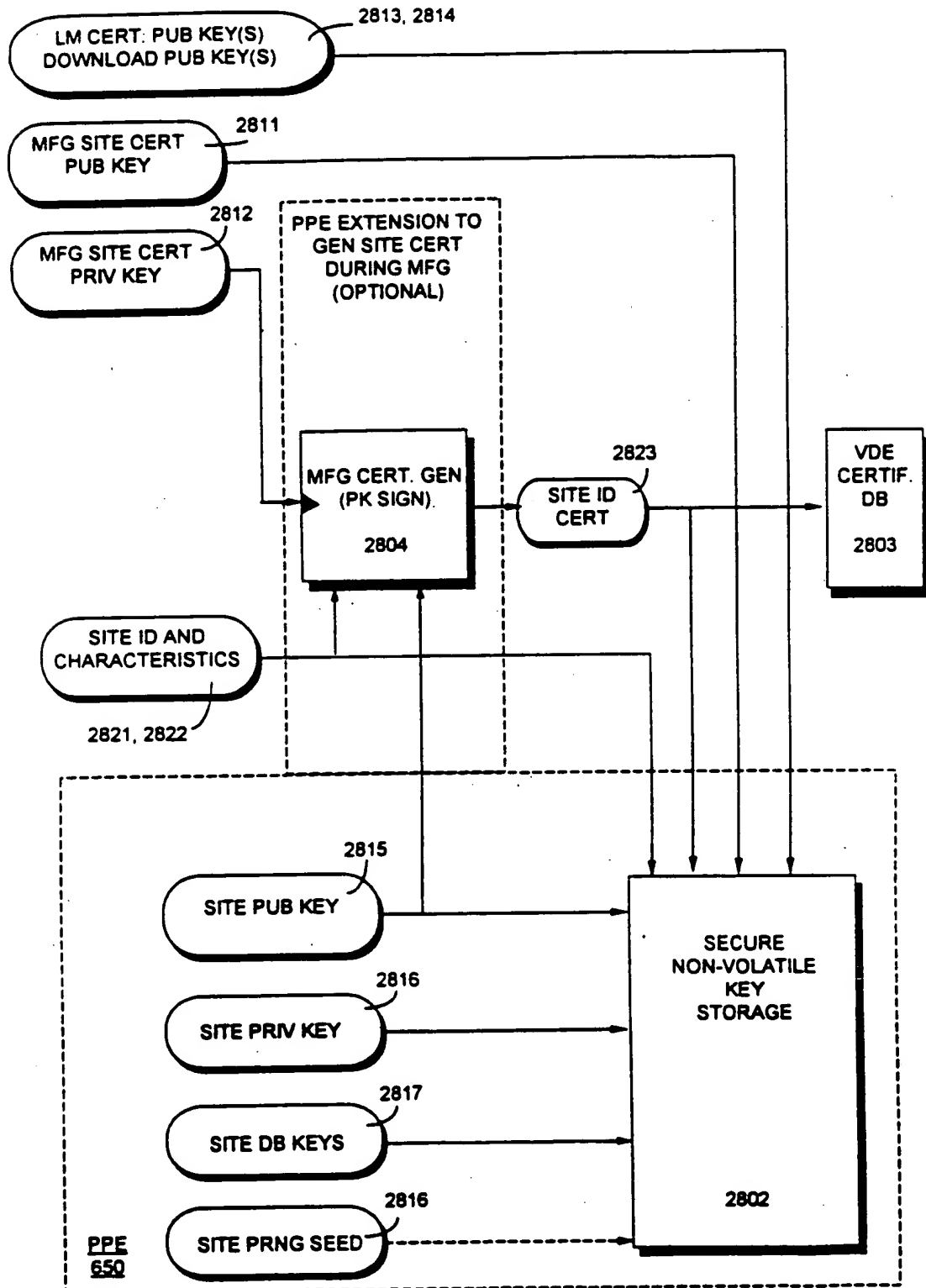


09870801.050404



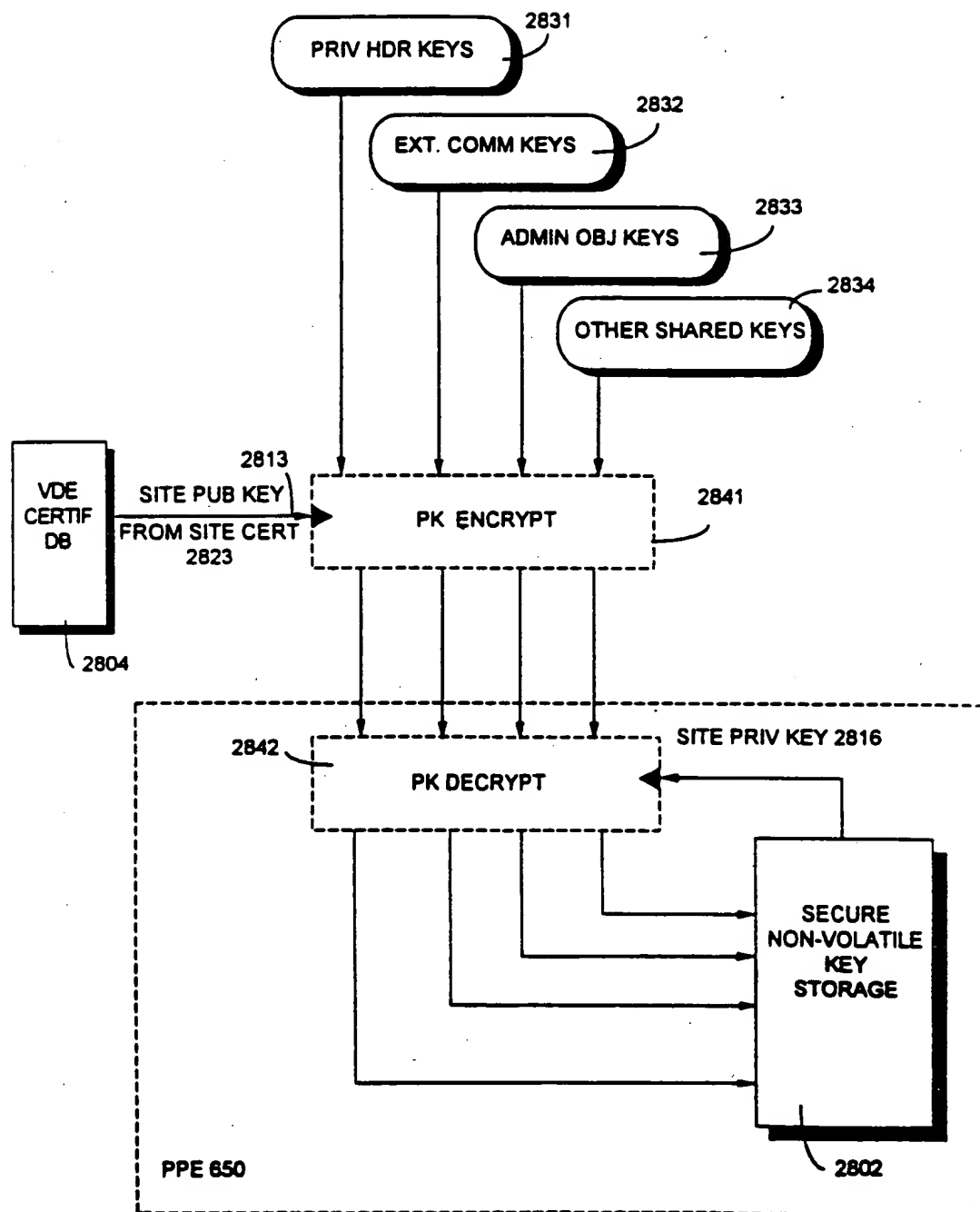
**FIG. 63**  
CLOCK OFFSET RESOLUTION WITH  
KEY CONVOLUTION

**FIG. 64** SPU KEY INITIALIZATION/INSTALLATION



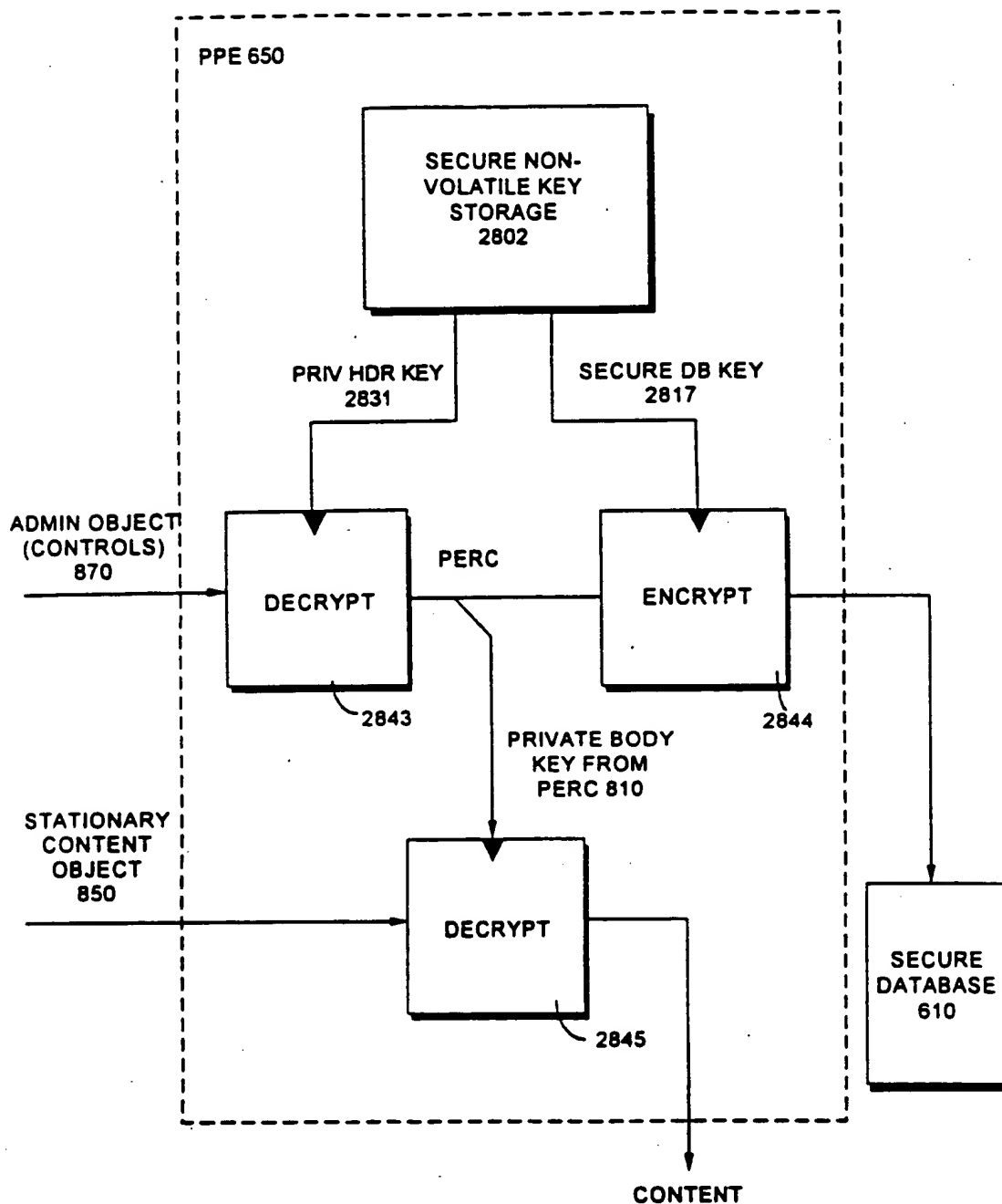
09370804-060401

**FIG. 65** KEY INSTALLATION & UPDATE



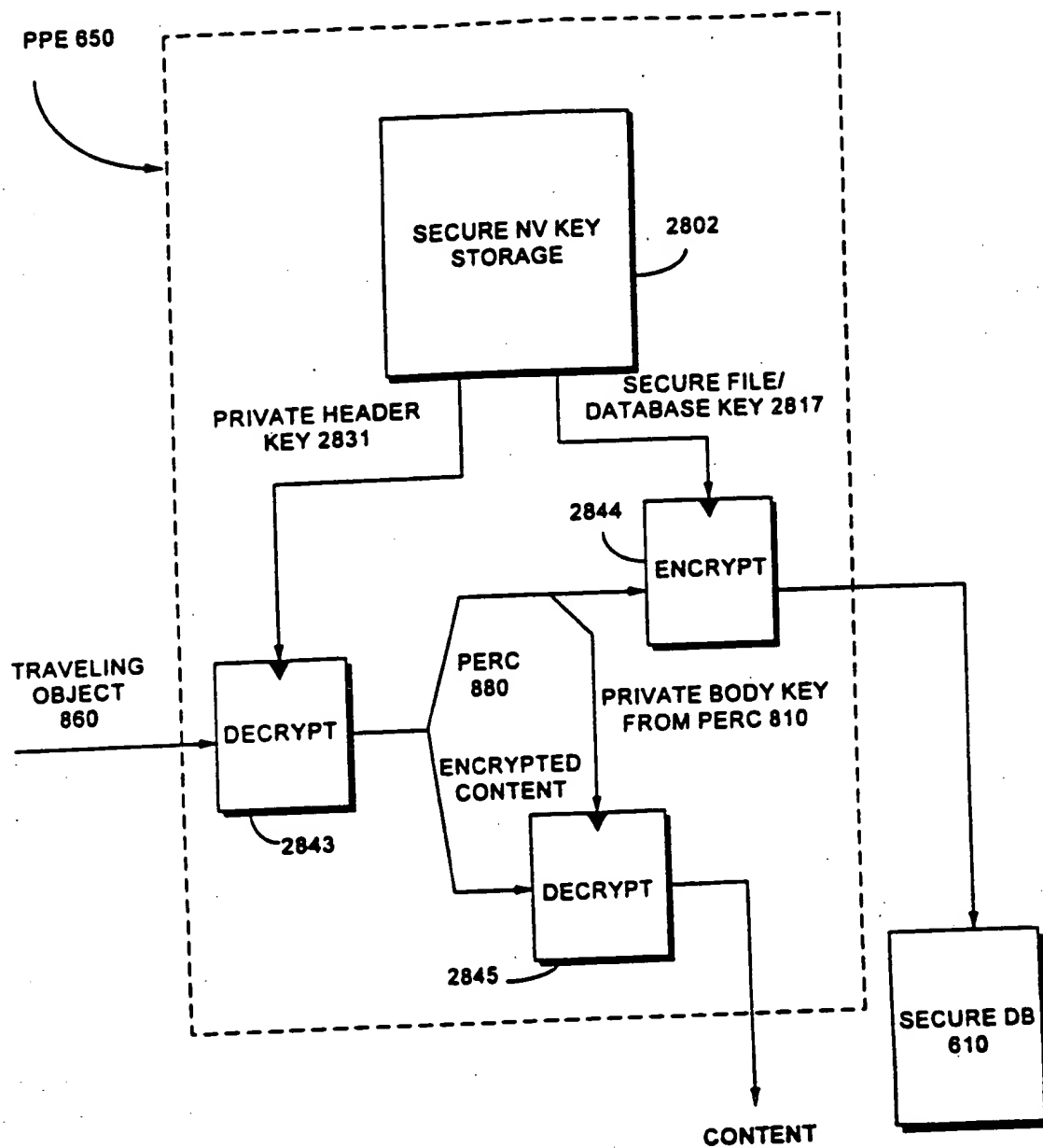
09870801-060401

09870801-050401



**FIG. 66** STATIONARY OBJECT DECRYPTION

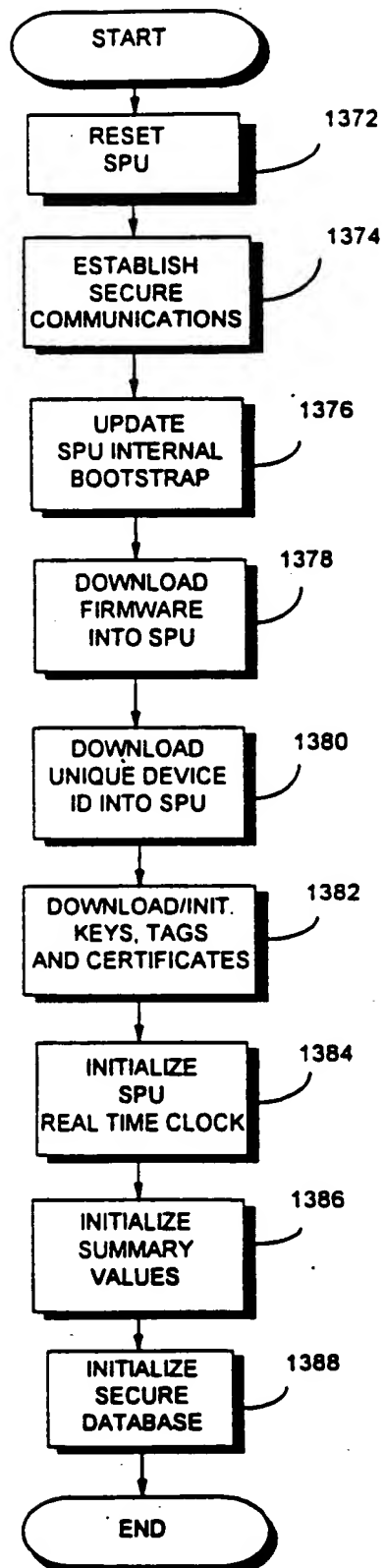
09370801-060104



**FIG. 67** TRAVELING OBJECT DECRYPTION

**FIG. 68**  
SPU INITIALIZATION

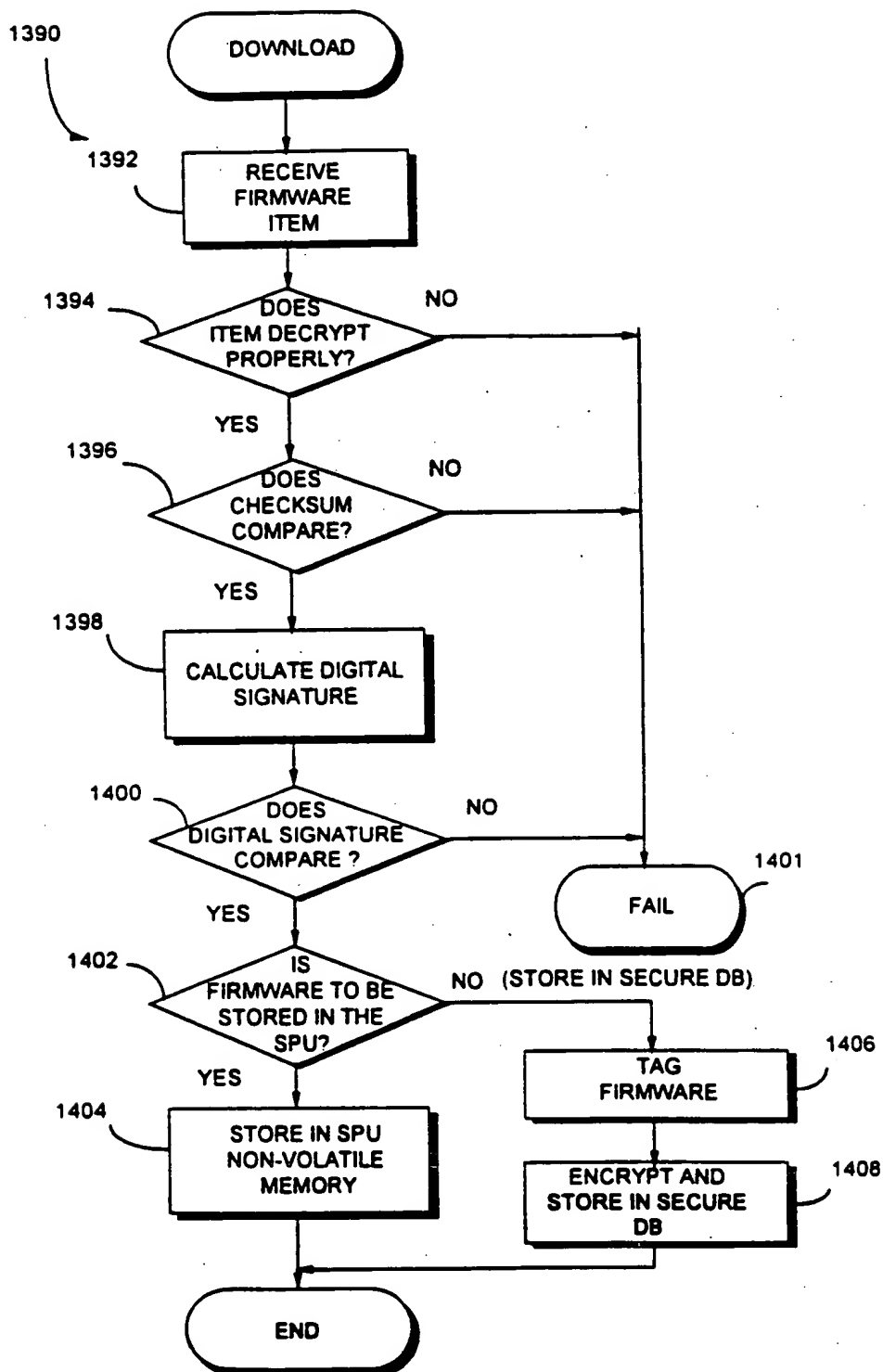
1370



09870804-060404



09870801-050101



**FIG. 69**

SPU FIRMWARE  
DOWNLOAD

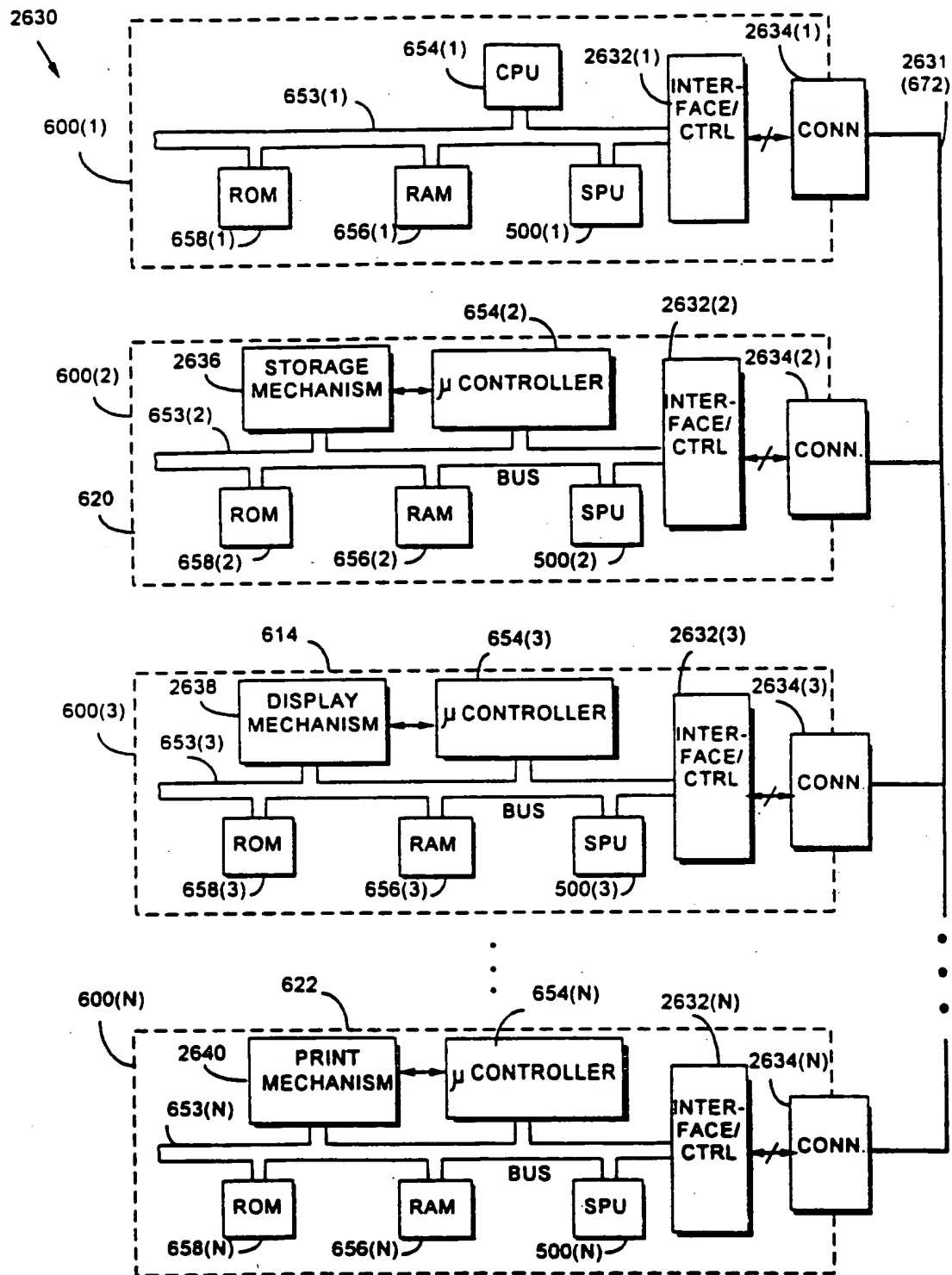
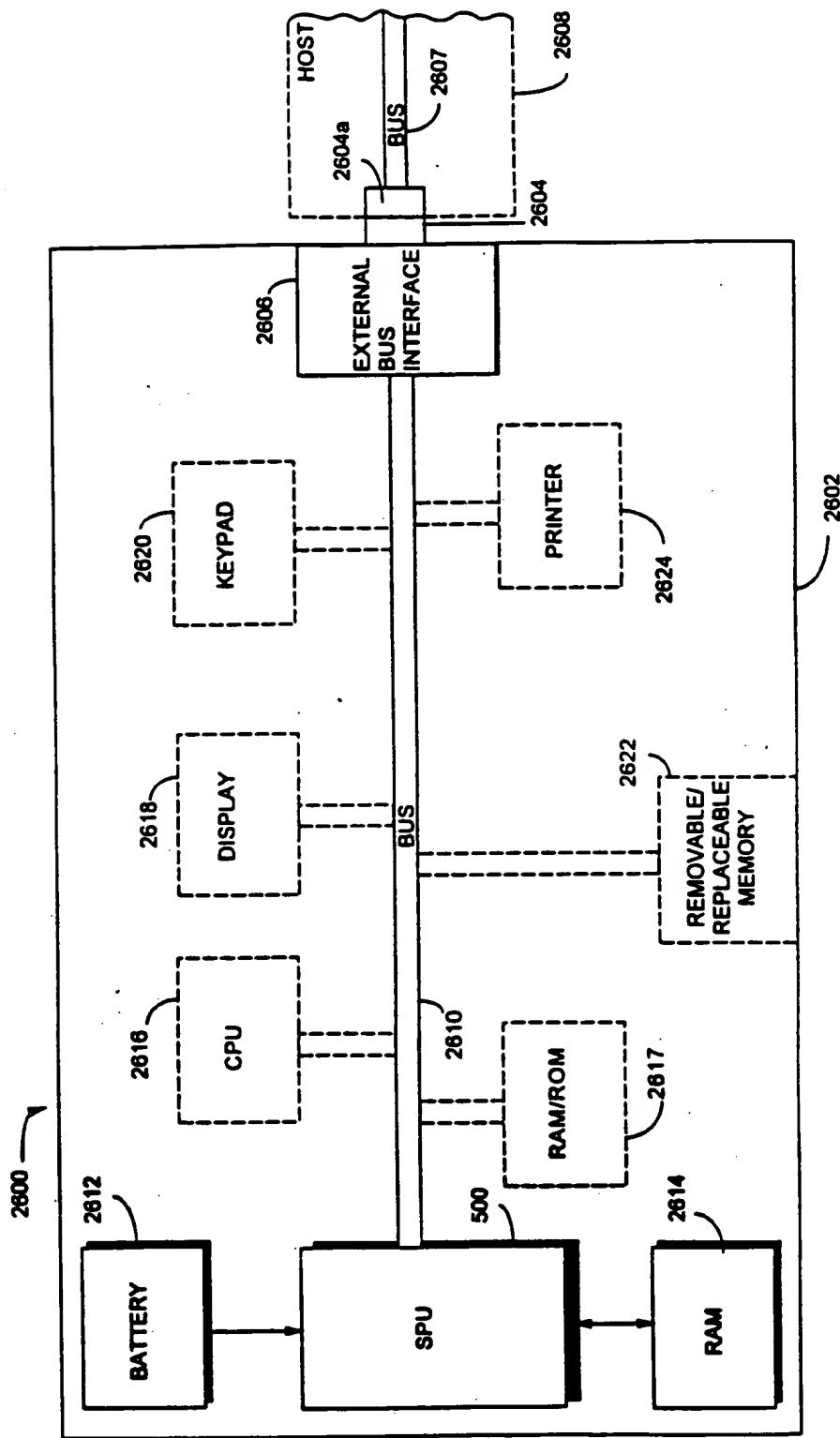


FIG. 70

FIG. 71

PORTABLE APPLIANCE



LOG IN USER INTERFACE

182

A login interface window with a title bar. It contains two input fields: 'USER NAME:' with the text 'SHEAR, V.' and 'PASSWORD:' with five asterisks. Below the password field is a checkbox labeled 'LOGIN AT STARTUP'. To the right of the input fields are three buttons: 'LOGIN', 'CANCEL', and 'HELP'.

FIG. 72A

FIG. 72B

A property request screen with a warning icon (triangle with an exclamation mark) on the left. The main text reads 'YOU HAVE REQUESTED THESE PROPERTIES:'. Below this is the property name 'LOONEY TUNES NEWS!'. To the right of the property name are two buttons: 'APPROVE' and 'SUSPEND'. Above the 'APPROVE' button is a button labeled 'CANCEL'. Below the property name is a button labeled 'PROPERTY INFO'. To the right of the 'PROPERTY INFO' button is the text 'Your Cost: \$7.50'. To the right of the cost is the text 'MORE OPTIONS' followed by a question mark icon. There are three reference numbers: 2660 pointing to the 'CANCEL' button, 2662 pointing to the 'APPROVE' button, and 2664 pointing to the 'MORE OPTIONS' text.

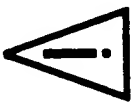
FIG. 72C

**SET LIMITS:**

SESSION DOLLAR LIMIT: \$	<div>2666</div> <div>50</div>	<div>2672</div> <div>↑ ↓</div>	<div>2674</div> <div>OK</div>
TRANSACTION DOLLAR LIMIT: \$	<div>2668</div> <div>50</div>		<div>CANCEL</div>
TIME LIMIT (IN MINUTES):	<div>2670</div> <div>50</div>	<div>HELP!</div>	
UNIT LIMIT:	<div>2672</div> <div>50</div>		

09870801-060101

FIG. 72D



**YOU HAVE REQUESTED THESE PROPERTIES:**

**LOONEY TUNE NEWS!**

**YOUR COST : \$7.50**

CANCEL

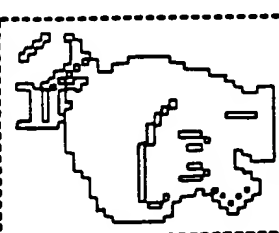
SUSPEND

APPROVE

PROPERTY INFO

More Options ☒

Show Thumbnail



PROPERTY:	SIZE:	PUBLISHER:	AMOUNT:	UNITS:	COST/UNIT:	TYPE:	USE?	LINKS:	HIST:
CHUCK JONES BIOGRA...	256KB	WARNER NEW MEDIA	64	KBYTE	\$1.25	PREVIEW	<input checked="" type="checkbox"/>		
▼ BUGS BUNNY.JPE...	1MB	WARNER NEW MEDIA	1	RECORD	\$5.00	DISPLAY	<input checked="" type="checkbox"/>		
BUGS BUNNY.JPEG...	1MB	WARNER NEW MEDIA	10	RECORD	\$3.50	DISPLAY	<input type="checkbox"/>		
BUGS BUNNY.JPEG...	1MB	WARNER NEW MEDIA	25	RECORD	\$2.50	DISPLAY	<input type="checkbox"/>		
FRIZ FRELENG BIOGRA...	256KB	WARNER NEW MEDIA	120	SECTOR	\$5.00	PRINT	<input type="checkbox"/>		
TEX AVERY BIOGRAP...	256KB	WARNER NEW MEDIA	50	PERCENT	\$2.50	COPY	<input type="checkbox"/>		
► DUCKI RABBITI DU...	64MB	WARNER NEW MEDIA	7.0	MINUTE	\$7.50	COPY-PRO	<input type="checkbox"/>		
MEL BLANC BIOGRAPH...	256KB	WARNER NEW MEDIA	1	SPECIAL	\$25.25	INSTALL	<input type="checkbox"/>		
LOONEY TUNES DATAB...	600MB	WARNER NEW MEDIA	1	OBJECT	\$2000.00	ALL	<input type="checkbox"/>		

SET LIMITS...

SHOW BUDGETS

ACQUIRE BUDGET...

HISTORY...

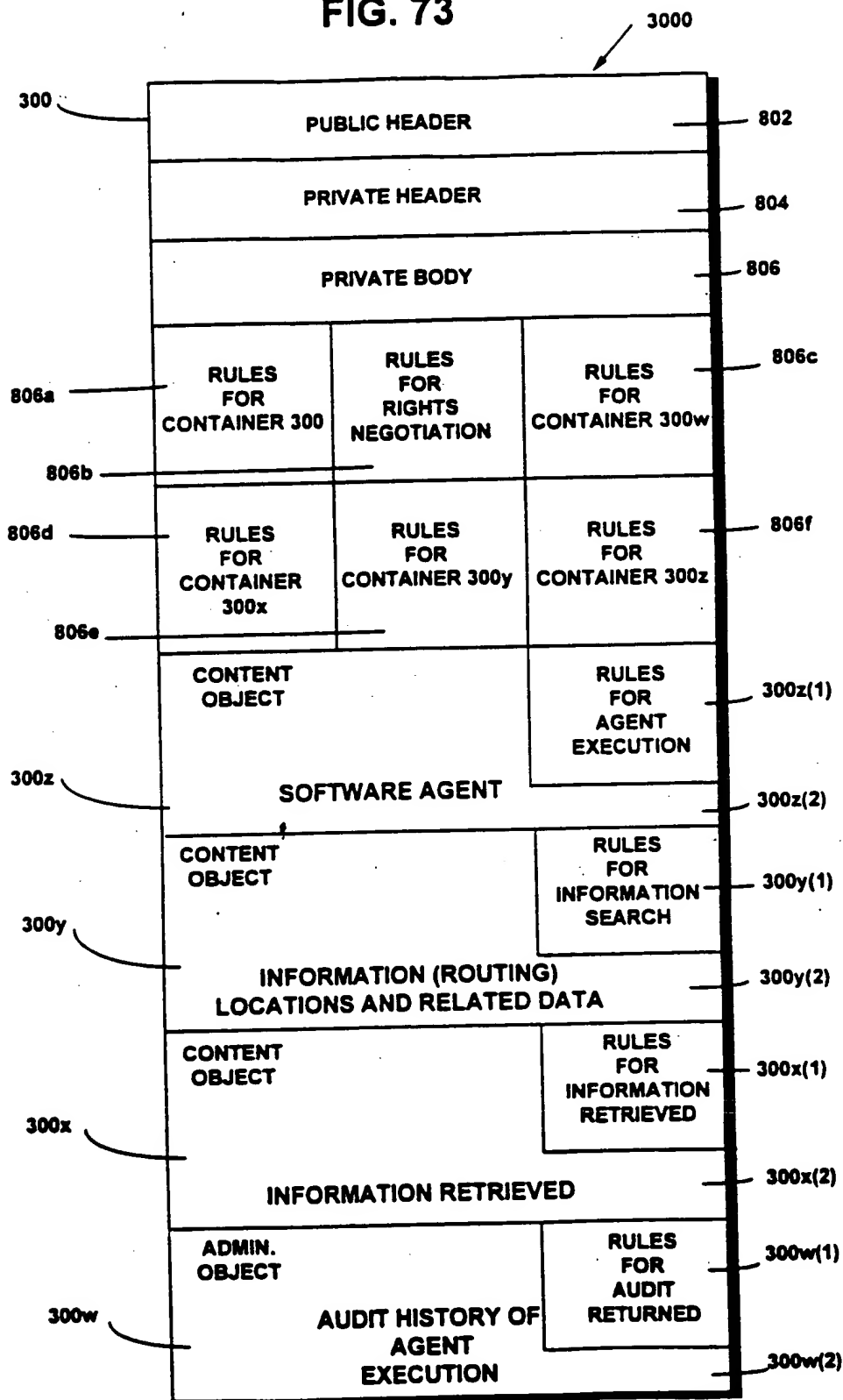
TRANSFER...

PREFERENCES...

FEEDBACK...

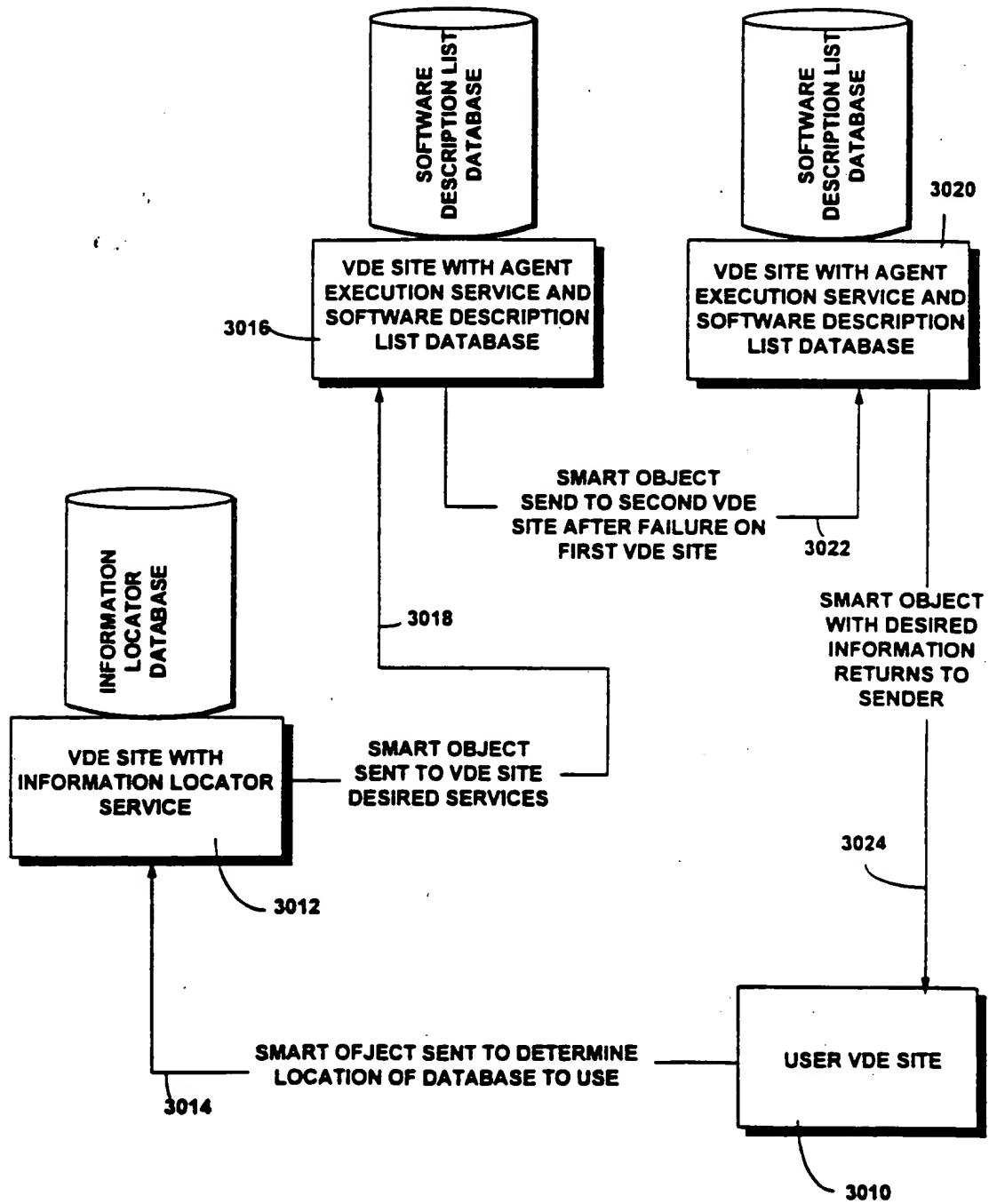
HELP!

FIG. 73



09870804.060101

FIG. 74



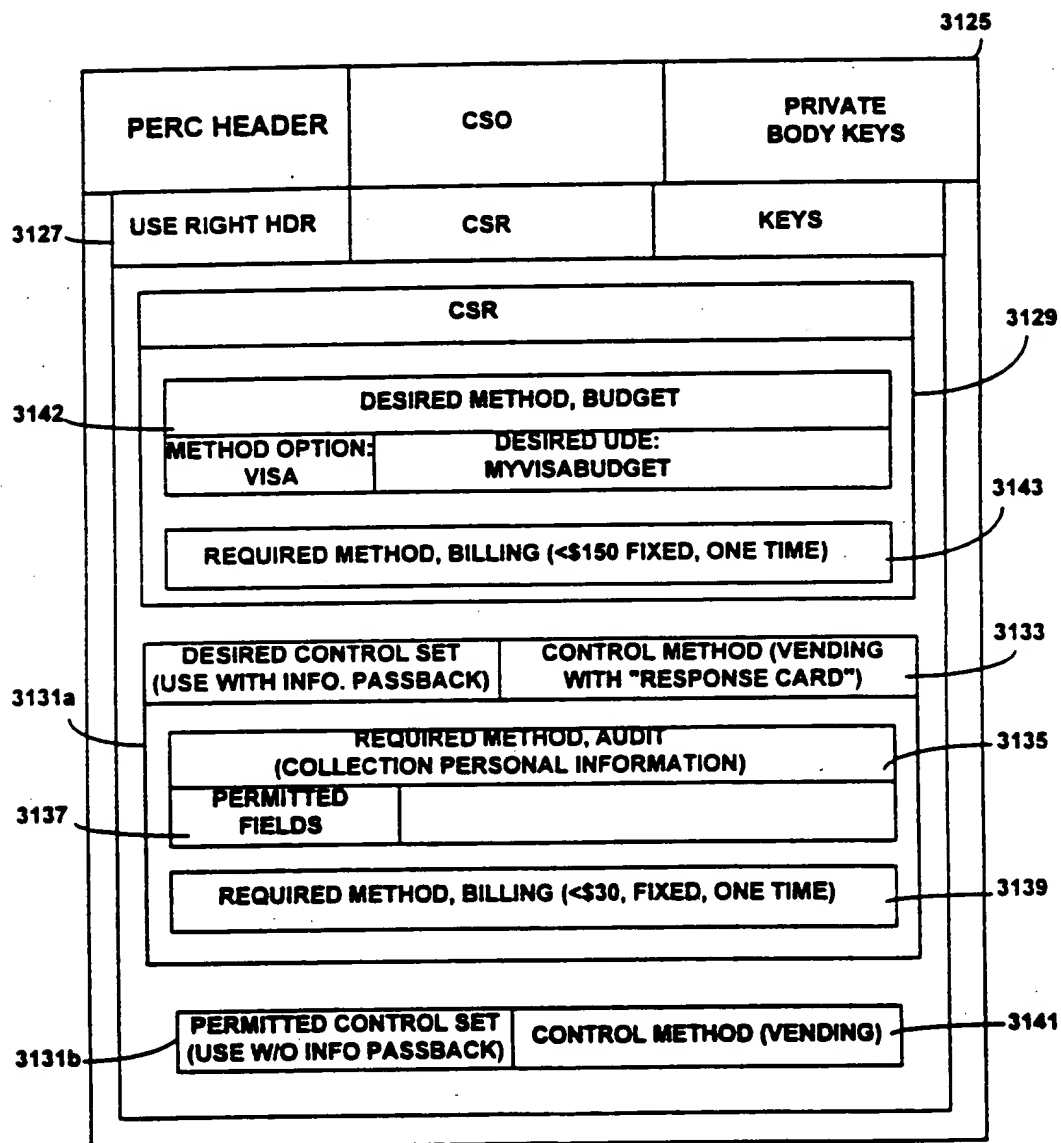


# FIG. 75A

PERC HEADER		CSO		PRIVATE BODY KEYS	
USE RIGHT HDR		CSR		KEYS	
PERMITTED CONTROL SET (USE W/O INFO. PASSBACK)		CONTROL METHOD (VENDING)			
REQUIRED METHOD, BUDGET					
METHOD OPTION: VISA		METHOD OPTION: MASTERCARD		METHOD OPTION: AMEX	
REQUIRED METHOD, BILLING (\$100 FIXED, ONE TIME)					
DESIRED CONTROL SET (USE WITH INFO. PASSBACK)		CONTROL METHOD (VENDING WITH "RESPONSE CARD")			
REQUIRED METHOD, BUDGET					
METHOD OPTION: VISA		METHOD OPTION: MASTERCARD		METHOD OPTION: AMEX	
REQUIRED METHOD, AUDIT (COLLECTION PERSONAL INFORMATION)					
REQUIRED FIELDS		DESIRED FIELDS			
REQUIRED METHOD, BILLING (\$25 FIXED, ONE TIME)					

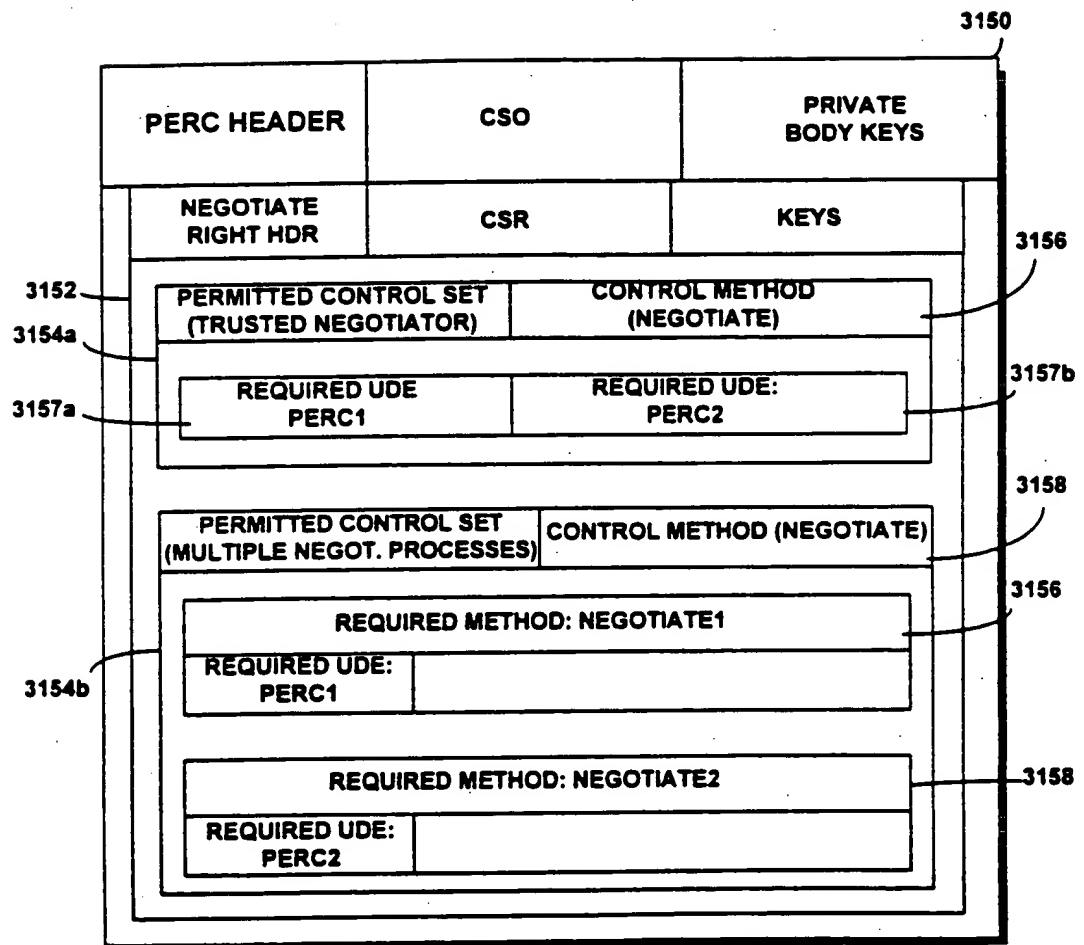
09370304-050404

FIG. 75B



09370801-060404

FIG. 75C



09870801-060101

FIG. 75D

URT HEADER		CSO	DIGITAL SIGNATURE
USE RIGHT HDR		CSR	
CONTROL SET(USE WITH INFO. PASSBACK)		CONTROL METHOD(VENDING WITH "RESPONSE CARD")	
REQUIRED METHOD, BUDGET			
METHOD OPTION: VISA		DESIRED UDE: MYVISABUDGET	
REQUIRED METHOD, AUDIT (COLLECTION PERSONAL INFORMATION)			
PERMITTED FIELDS			
REQUIRED METHOD, BILLING(\$25, FIXED, ONE TIME)			

09870801, 060101

09870801-060101

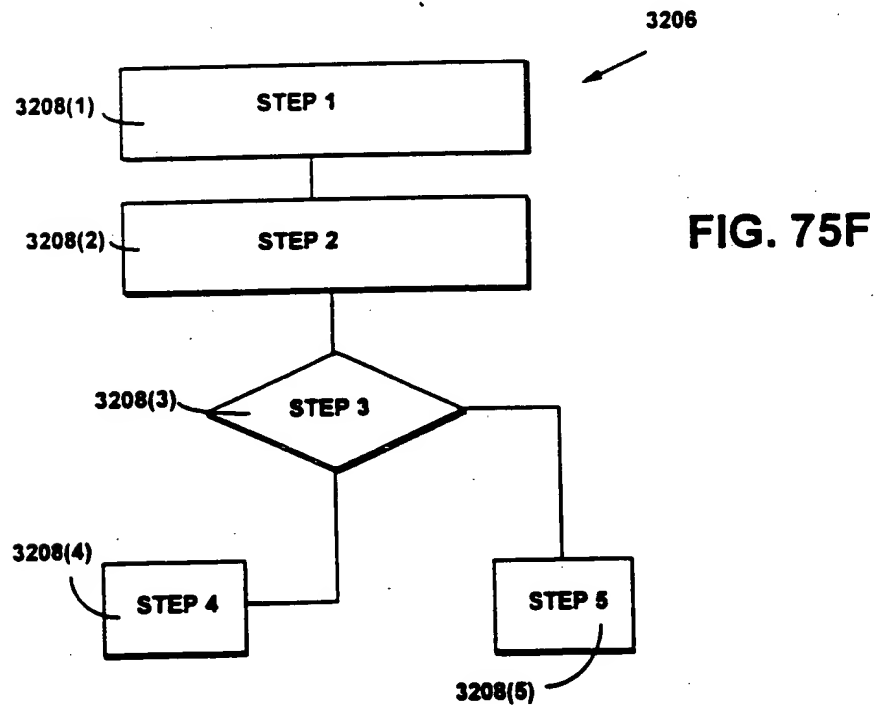
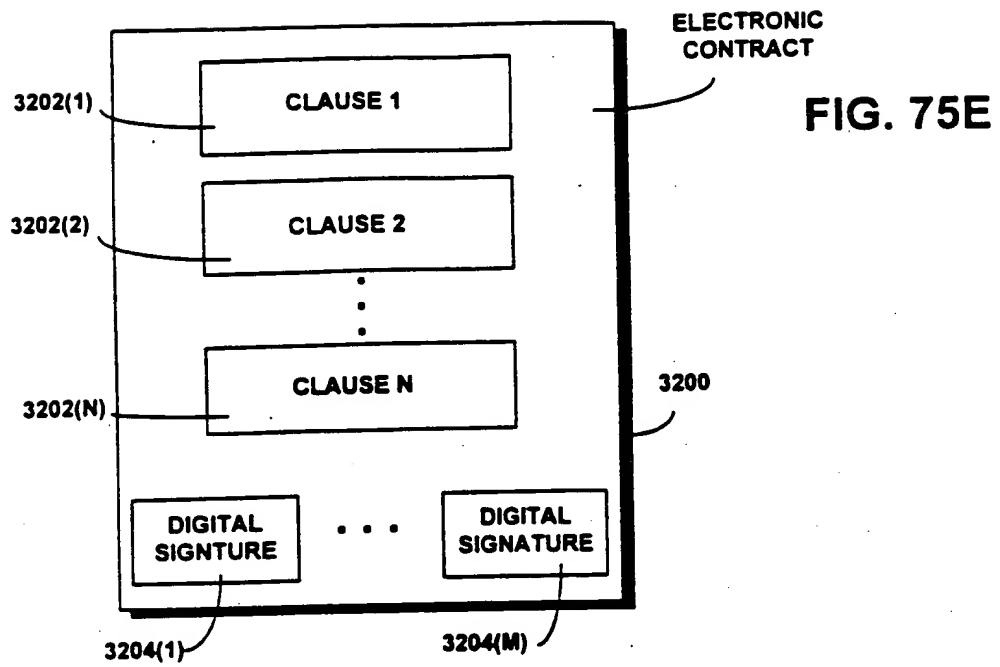
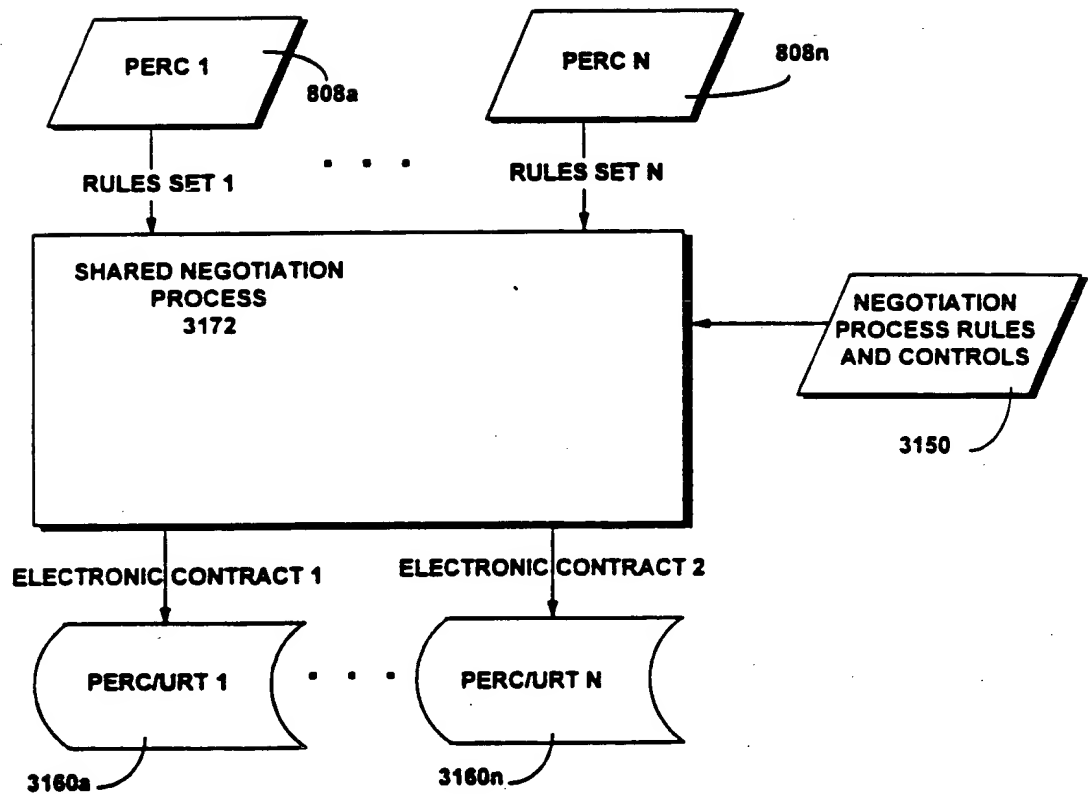
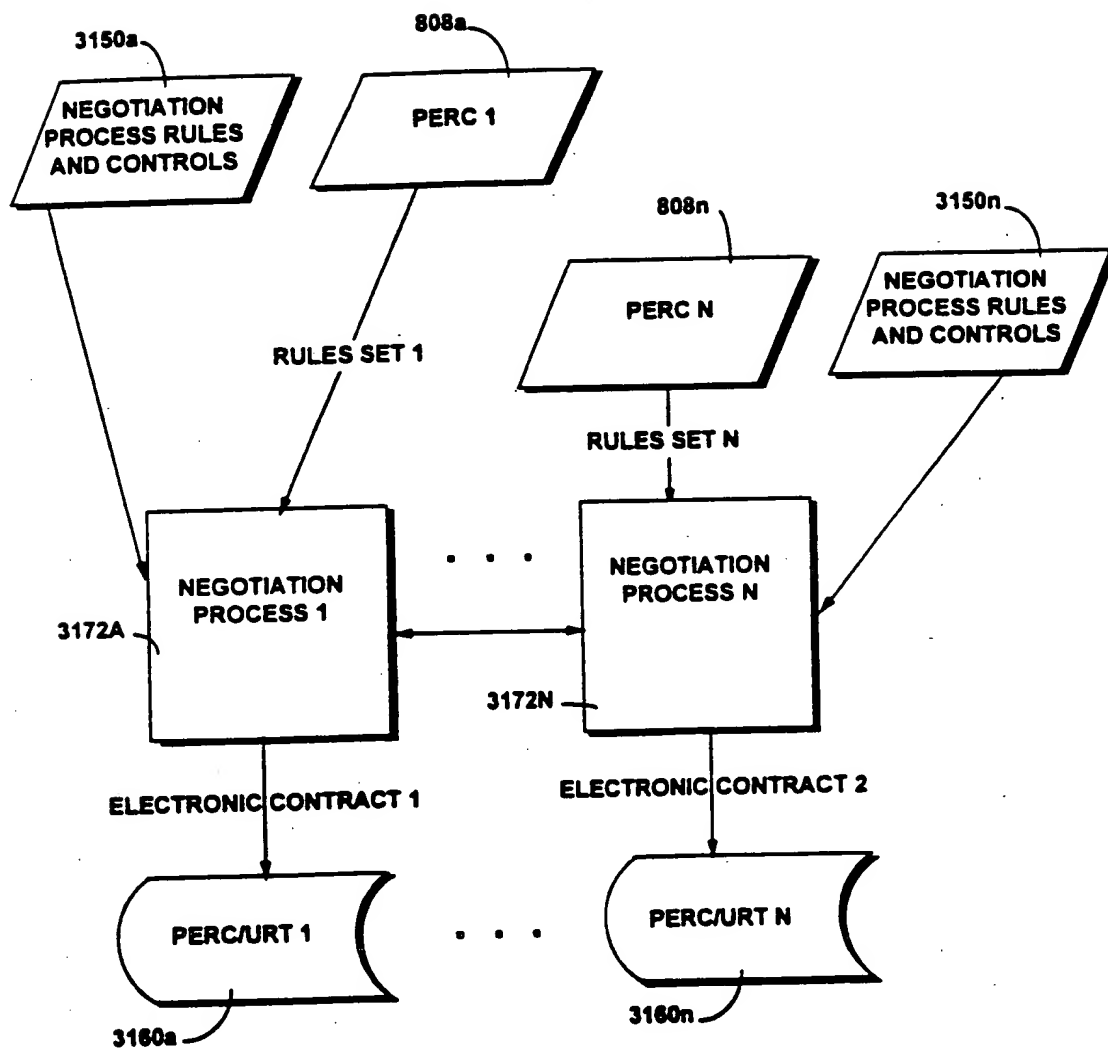


FIG. 76A



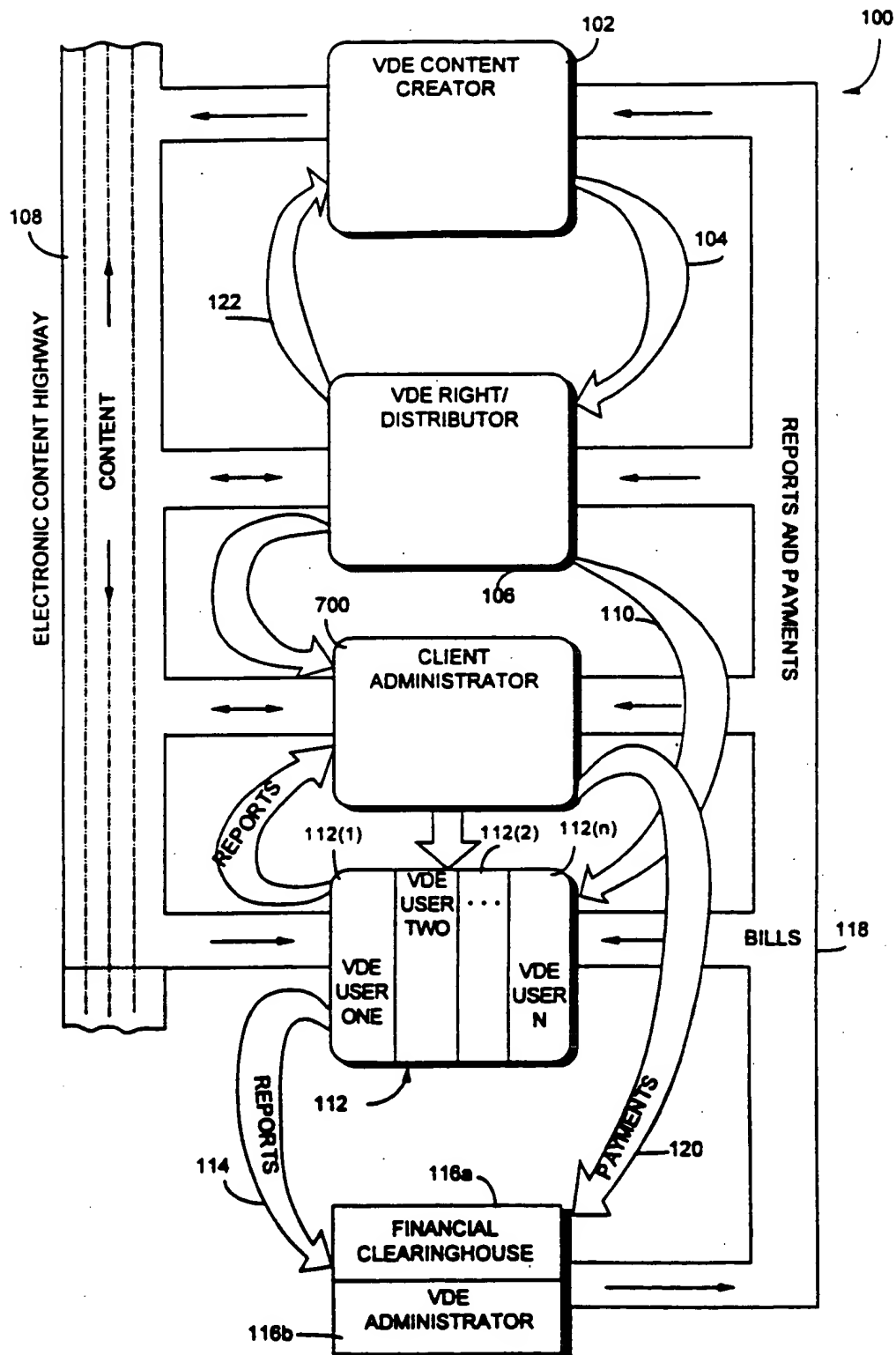
09870301-060104

FIG. 76B



09370301.060403

FIG. 77



09370801.060401



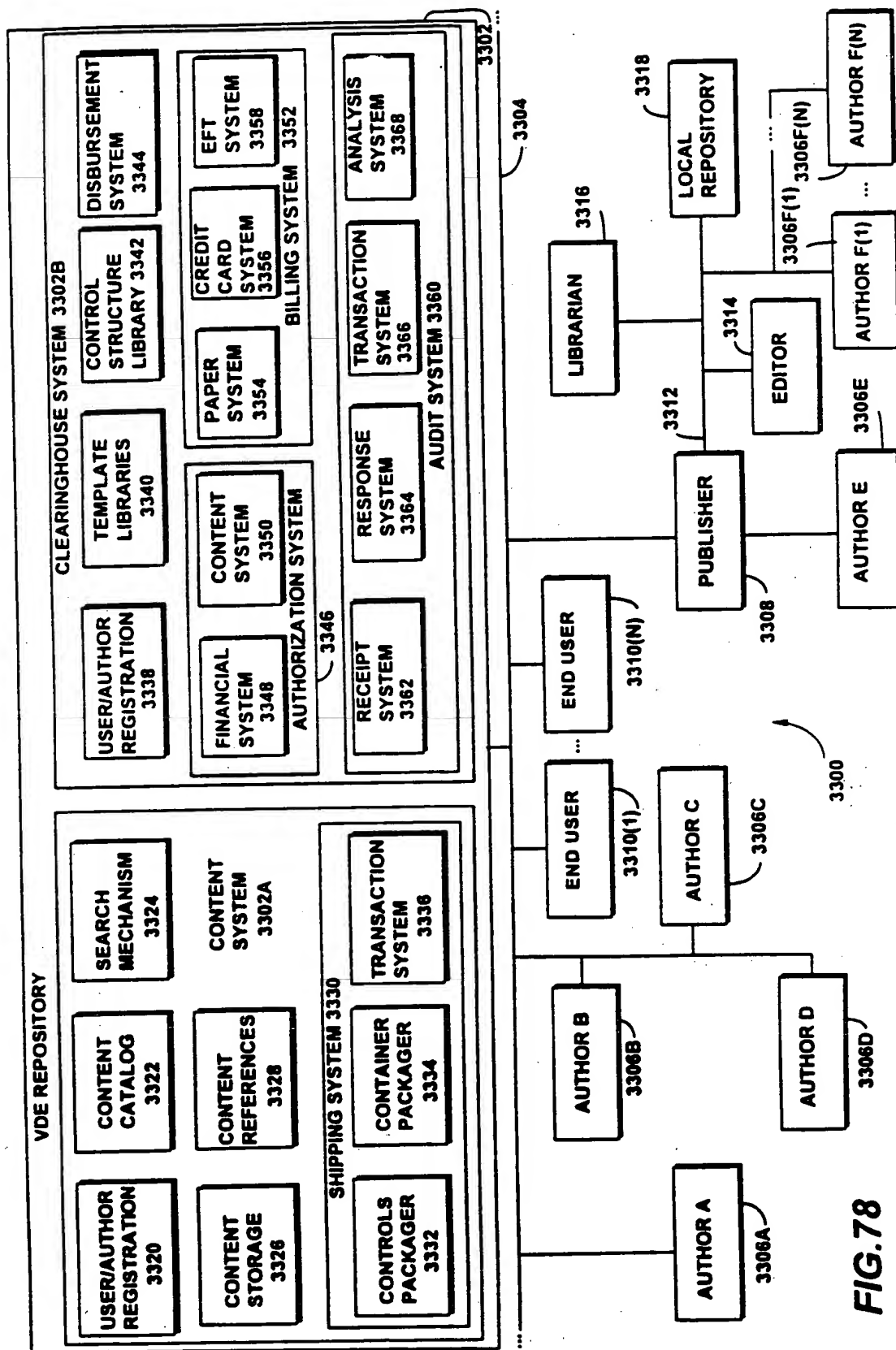
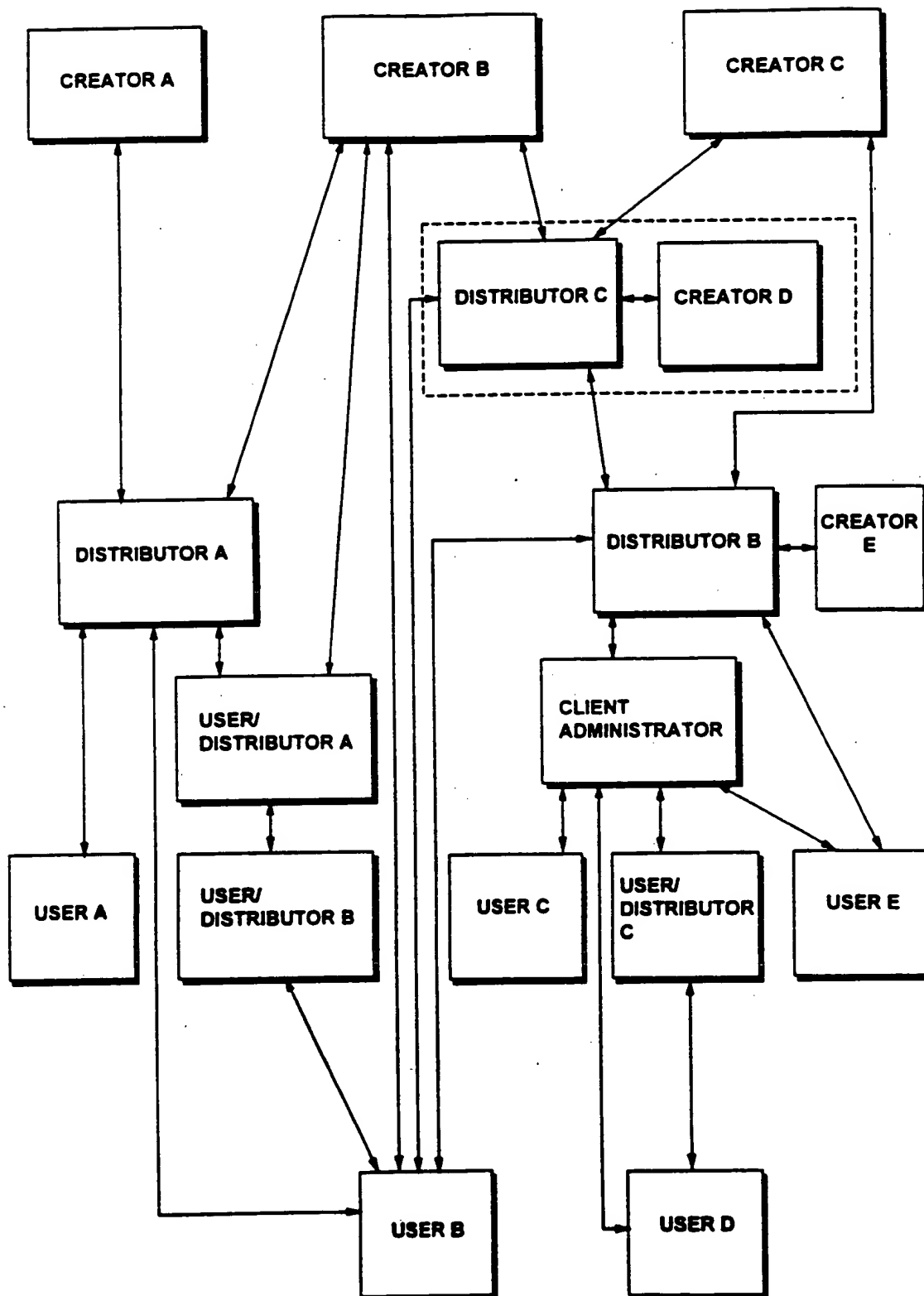
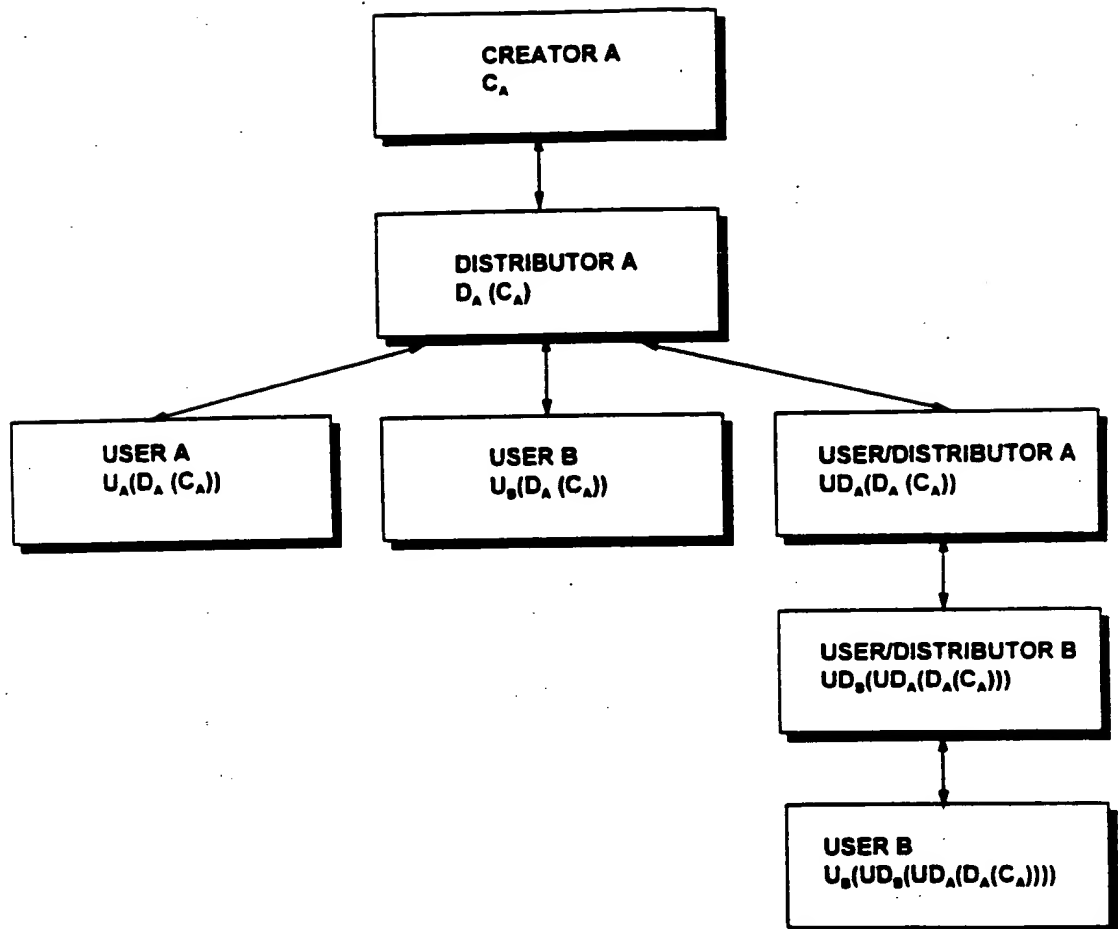


FIG. 79



09870801.060101

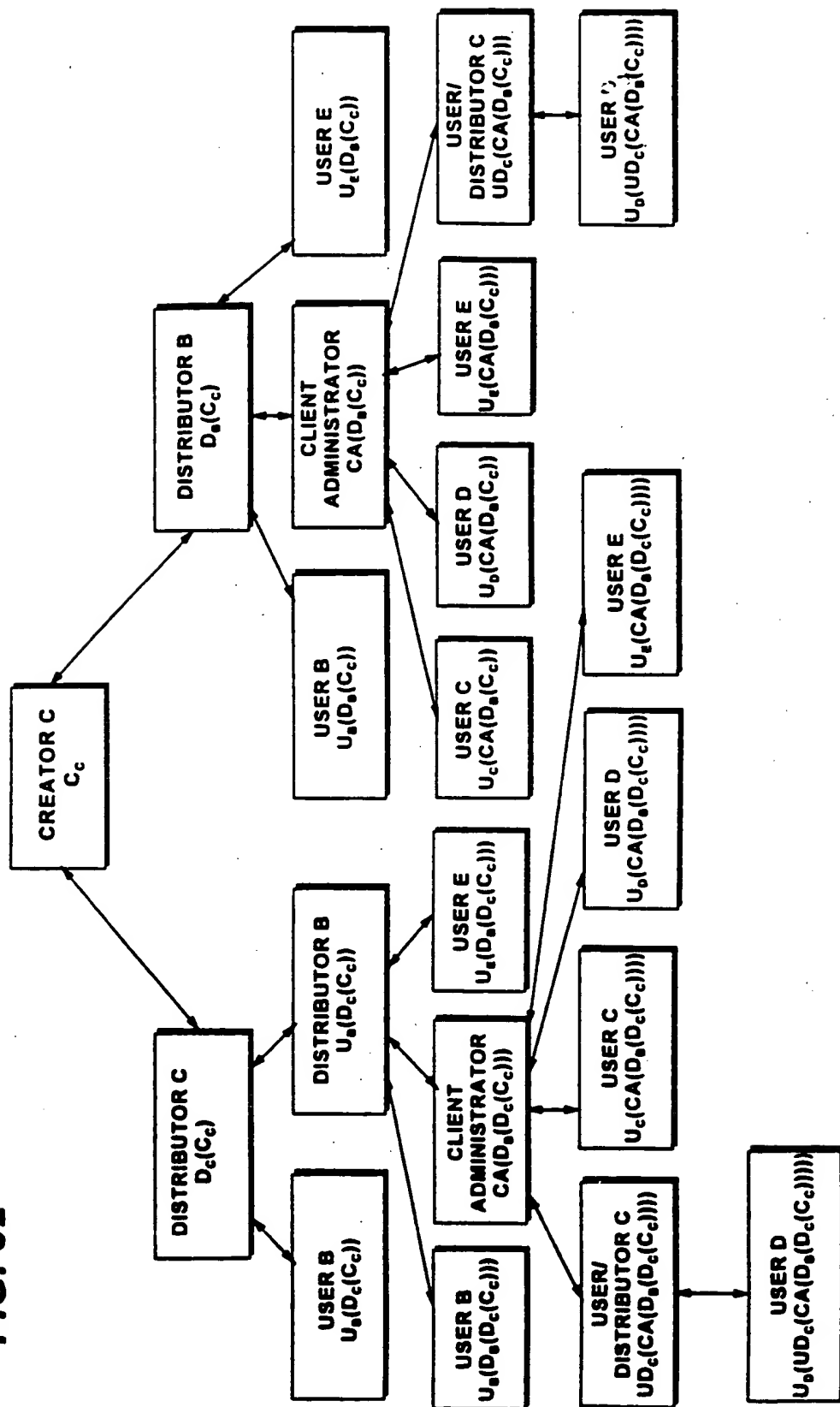
**FIG. 80**



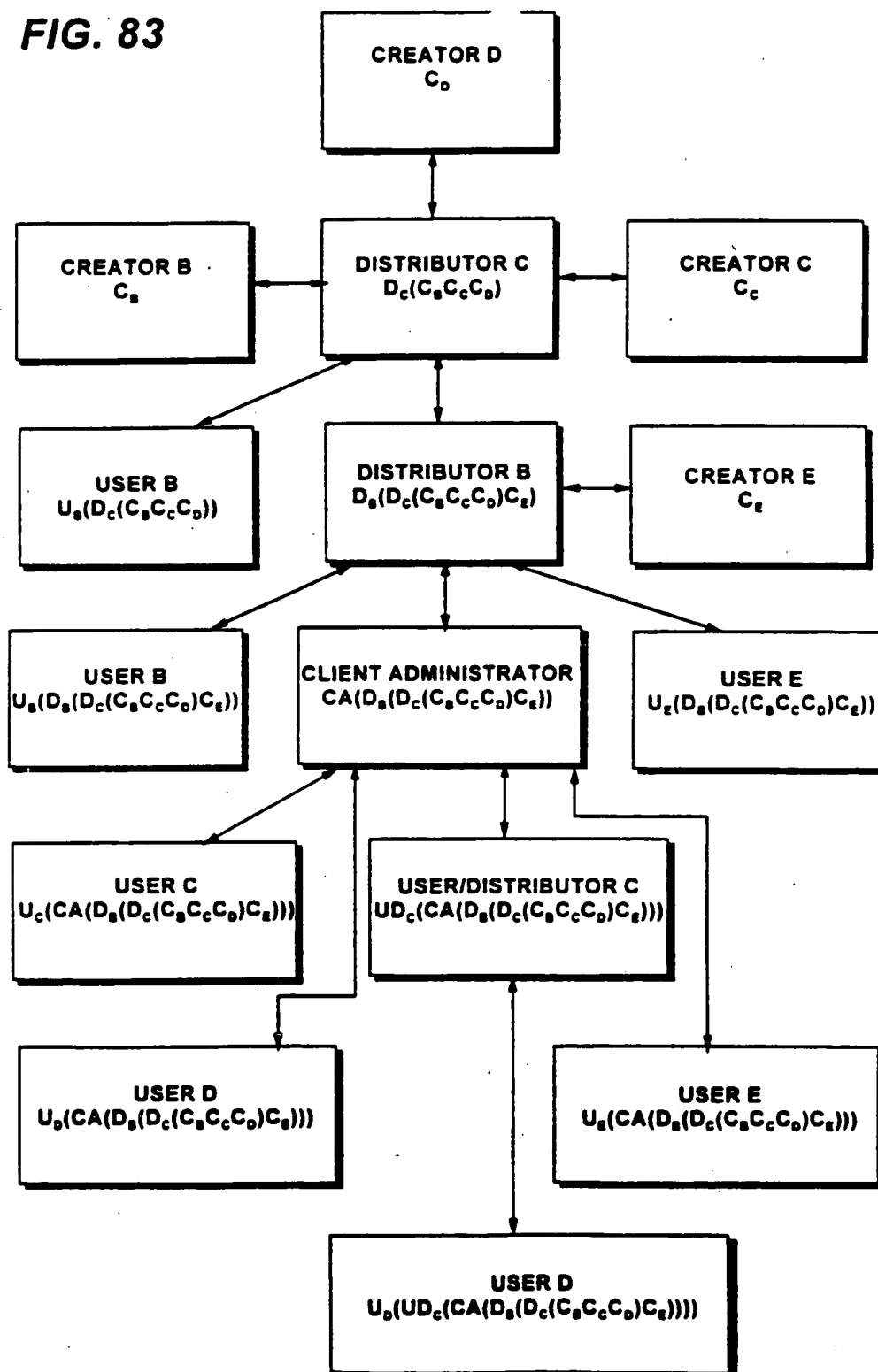
09870801.060101



FIG. 82



**FIG. 83**



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FIG. 84

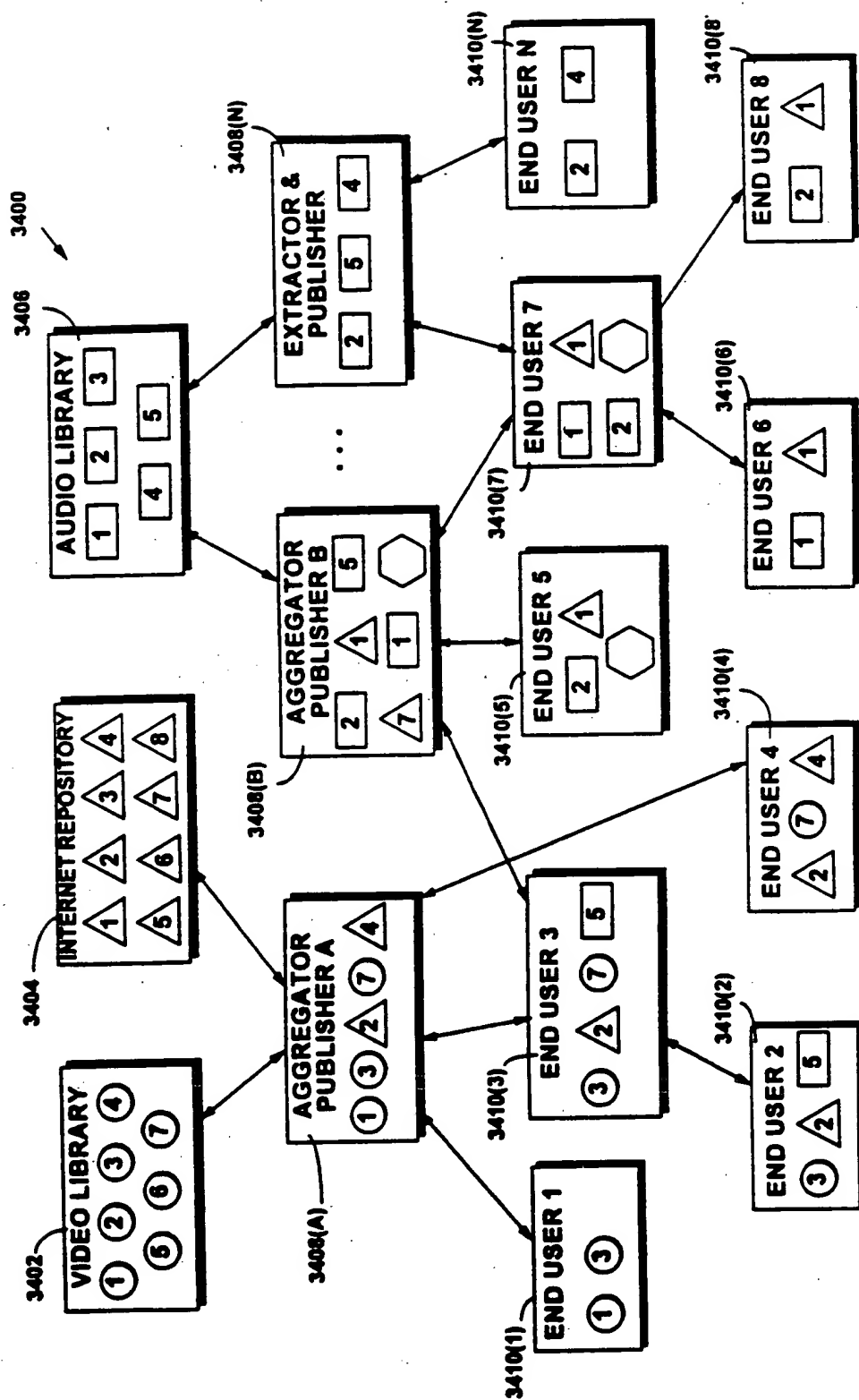
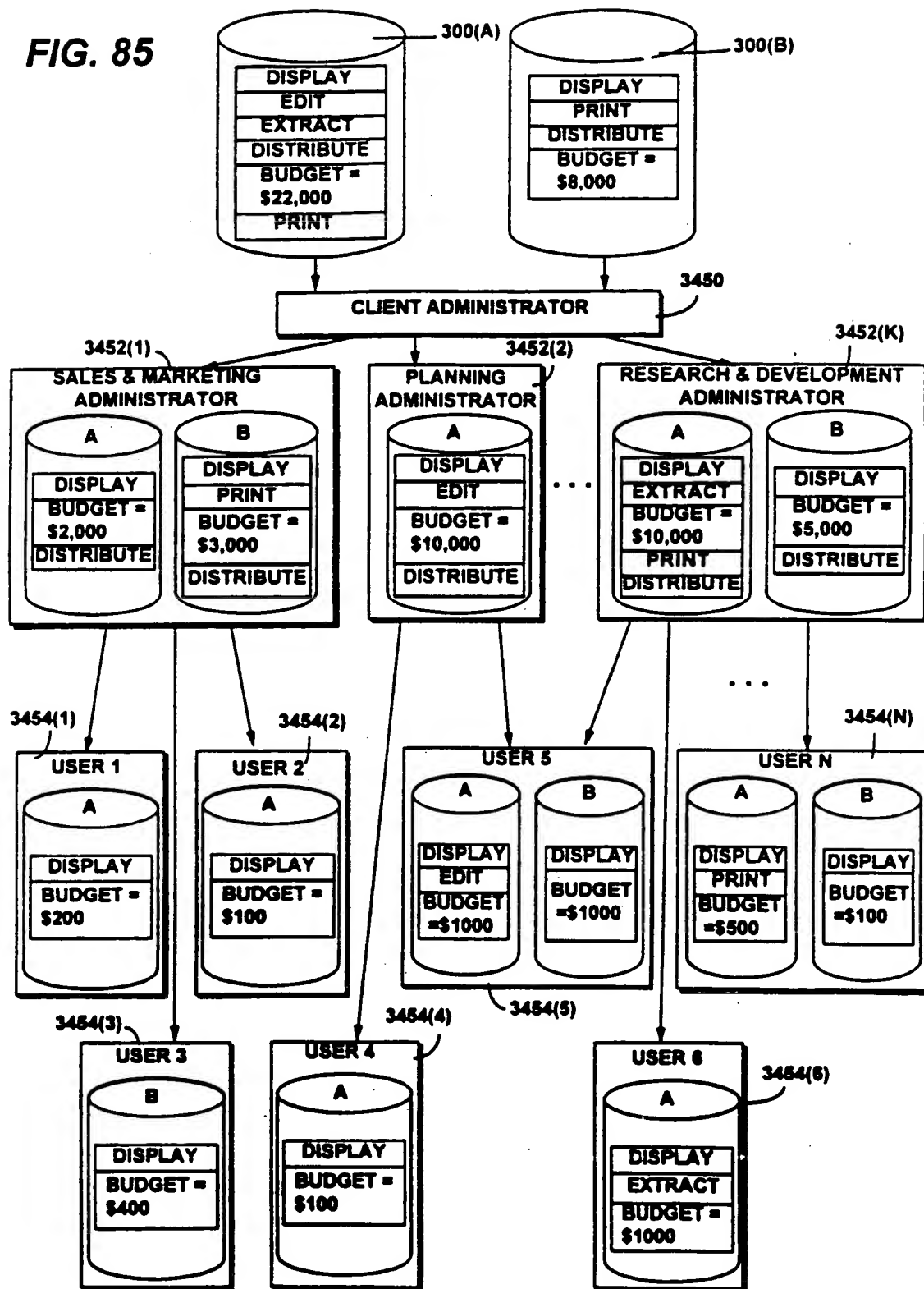


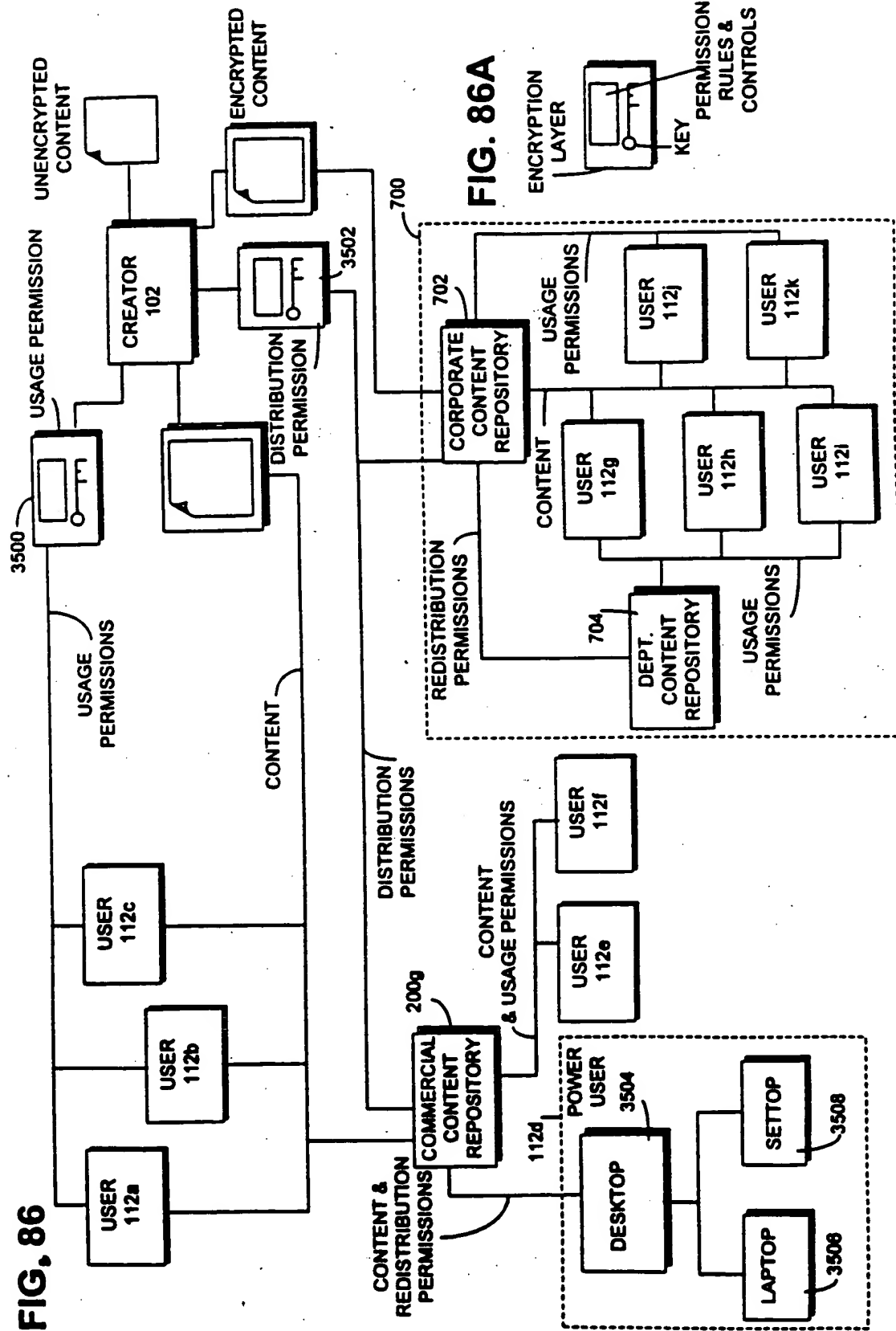
FIG. 85



09870301-060101



**FIG. 86**



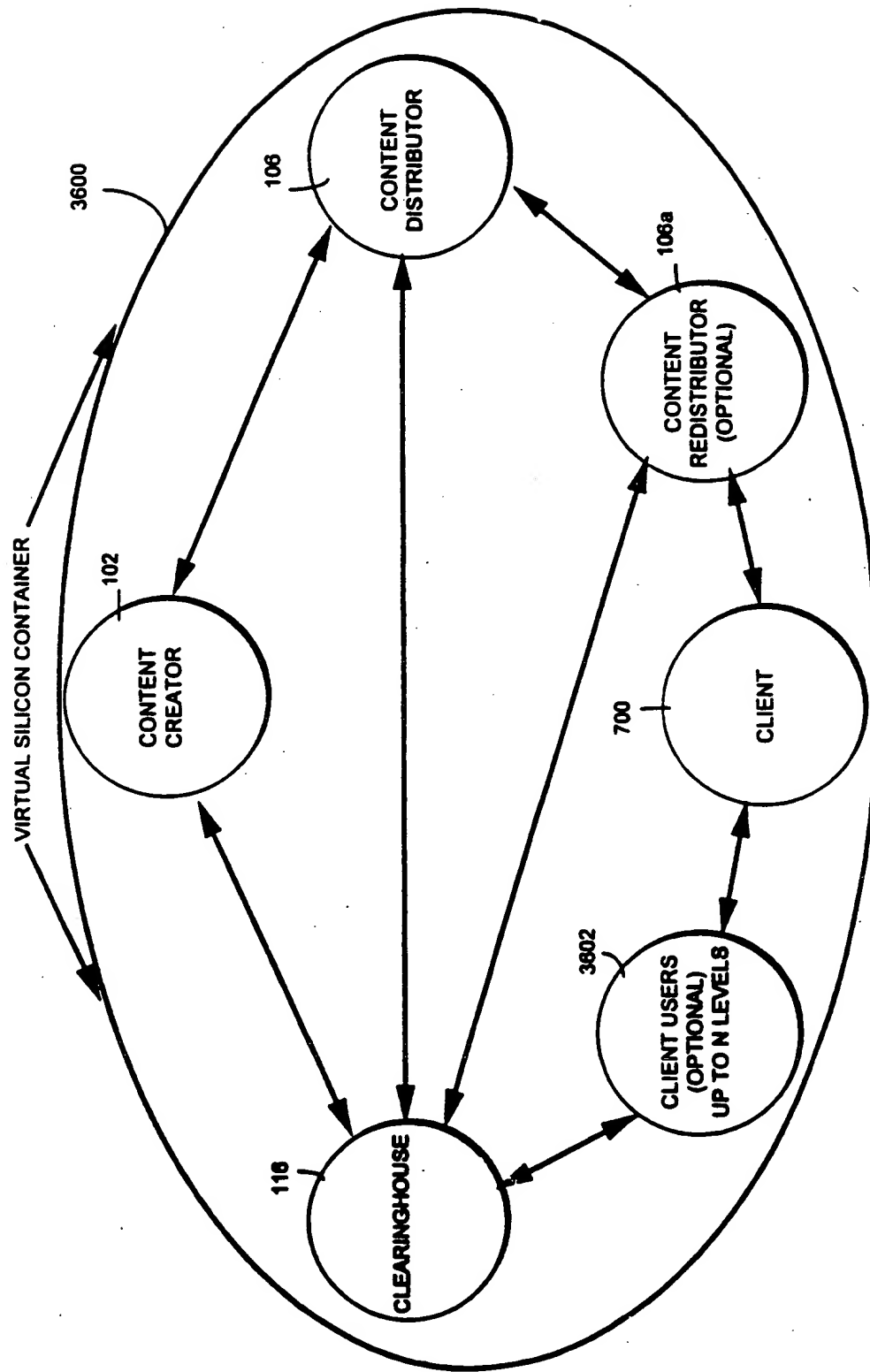


FIG. 87